2025 Annual Site Management Report

APPENDIX A:
Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report

Former Lockheed Martin
French Road Facility
Utica, New York

Prepared for:
Lockheed Martin Corporation
Environmental Remediation
6801 Rockledge Drive
Bethesda, Maryland 20817

Prepared by:
Tetra Tech, Inc.
980 Awald Road, Suite 302
Annapolis, MD 21403

March 2026

Table of Contents

LIST OF TABLES

LIST OF FIGURES

LIST OF FIGURES (CONTINUED)

LIST OF APPENDICES

ABBREVIATIONS & ACRONYMS

AGC	annual guideline concentration
AWS	air water separator
cfm	cubic feet per minute
CVOCs	chlorinated volatile organic compounds
DAR	Division of Air Resources
DCE	dichloroethene
ft	feet
FT	flow transmitter
GAC	granular activated carbon
GCTS	groundwater collection and treatment system
Hp	horsepower
HX	heat exchanger
HVAC	heating, ventilation and air conditioning
ICM	interim corrective measure
in. W.C.	inches of water column
lbs	pounds
Lockheed Martin	Lockheed Martin Corporation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	operation, maintenance, and monitoring
PCE	tetrachloroethene
PLC	programmable logic controller
PT	pressure transmitter
PVC	polyvinyl chloride
SDS	sub-slab depressurization sump
SGC	Short-term Guideline Concentration
SMR	Site Management Report
SOPs	Standard Operating Procedures
SSDS	sub-slab depressurization system
SVI	soil vapor intrusion

TCE	trichloroethene
TT	temperature transmitter
USEPA	United States Environmental Protection Agency
VI	vapor intrusion
VC	vinyl chloride
VFD	variable frequency drive
VMP	vacuum monitoring point
VPGAC	vapor phase granular activated carbon
VOCs	volatile organic compounds
VRV	vacuum relief valve
VT	vacuum transmitter
WFS	wet floor sensor

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) has prepared this Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report (Report) as an Appendix to the *2025 Annual Site Management Report* for the Former Lockheed Martin Corporation (Lockheed Martin) French Road Facility (Site) at 525 French Road, Utica, New York. This Report has been prepared to meet requirements specified in the *Operation, Maintenance, and Monitoring Plan, Sub-Slab Depressurization System* (OM&M Plan; Tetra Tech, 2021). The activities described herein satisfy the requirements of the October 3, 2008 "*Order on Consent*" (CO 6-20080321-5) issued by the New York State Department of Environmental Conservation (NYSDEC; NYSDEC, 2008).

This Report documents the following: ongoing operation of the sub-slab depressurization system (SSDS), monitoring of sub-slab differential pressures, and quarterly effluent vapor sampling. This report summarizes the SSDS operation, maintenance, and monitoring (OM&M) activities performed from January through December 2025.

2.0 SUB-SLAB DEPRESSURIZATION SYSTEM

2.1 HISTORY

The SSDS was initially installed in November 2007 and was operated as a pilot test to evaluate the system's effectiveness in addressing sub-slab concentrations of chlorinated volatile organic compounds (CVOCs) requiring mitigation per the New York State Department of Health (NYSDOH) Soil Vapor Intrusion Guidance at the Site. Based on the pilot-test results and supplemental indoor-air/sub-slab analytical results (*Revised Work Plan for the Interim Corrective Measure*, ARCADIS, 2008), the pilot-test system was expanded as part of an interim corrective measures (ICM) plan. The SSDS began continuous operation with sub-slab depressurization sumps (SDS)-1, -2, and -3 in July 2008, and operated through November 2010.

As presented in the *Sub-Slab Depressurization System 100% Design Work Plan* (ARCADIS, 2010), OM&M activities during 2009 indicated that the ICM SSDS was not meeting operational goals in all areas. Beginning in September 2010, the SSDS was expanded to include four additional depressurization sumps (SDS-4 through SDS-7), and major components of the system were also upgraded to expand the capture area of sub-slab vapor from areas of the main building. Upgrade activities continued into February 2011, at which point the expanded system began full-scale operation. To improve capture around Vacuum Monitoring Point (VMP)-7A, an eighth sump (SDS-8) was installed in 2013.

Lockheed Martin completed elements of system optimization during 2020 that were reviewed and approved by the NYSDEC/NYSDOH. The optimization measures for the SSDS completed in 2020 included installation of a manual transfer switch for a backup generator to limit the duration of shutdown in the event of a power failure, the retirement of the vapor phase granular activated carbon (VPGAC) treatment, and installation of an additional depressurization sump, SDS-9 in December 2020. The VPGAC was removed from the site on September 12, 2024

An additional optimization effort was a reduction in the system OM&M activities with a recommended modification of the vapor sampling from the individual SDSs to only sampling the effluent vapor from the regenerative blower prior to discharge to the atmosphere. In addition, it was recommended to remove the SSDS leak detection testing of the aboveground piping components from the OM&M procedures. The NYSDEC approved the reduction of SSDS OM&M activities as discussed above verbally during a monthly call on July 1, 2020 and in a letter dated August 3, 2020 (NYSDEC, 2020).

A detailed description of the upgraded system is documented in the revised OM&M Plan (Tetra Tech, 2021). The current system layout is shown on Figure A-1.

For a more detailed SSDS history, refer to Section 1.4 of the SMR.

2.2 MAJOR SYSTEM COMPONENTS

Major components of the system are as follows:

- Nine SDSs (SDS-1 through SDS-9) are used to maintain a sub-slab vacuum within the impacted area. Each SDS was installed to a depth of two feet below the top of the concrete slab and was constructed of three-inch diameter polyvinyl chloride (PVC) well casing with 1.5 feet (ft) of 10-slot PVC well-screen. The well casing and screen were inserted into the borehole, the annular space between the well screen and the borehole was backfilled with a ⅜-inch diameter washed pea-stone filter pack to the bottom of the concrete slab, and the concrete slab was re-sealed with non-shrinking grout to the top of the slab to restore the facility floor.
- Three-inch and four-inch diameter schedule-40 PVC conveyance pipe from the SDSs to the SSDS treatment equipment in the former pH Neutralization Building.
- One moisture separator (air/water separator [AWS-200]) for condensate collection.
- One inline-air filter to protect the blower from particulates (F-201).
- A single 15-horsepower (Hp) regenerative blower (B-200), controlled by a variable frequency drive (VFD).
- A 2-Hp heat exchanger (HX-300) rated for 615 standard cubic feet per minute (cfm) which is currently bypassed and not operating.
- 25 sub-slab VMPs.
- Programmable Logic Controller (PLC) to facilitate remote system monitoring and operation.

Specific system details, including equipment specifications and model numbers can be found in the OM&M Plan (Tetra Tech, 2021). During SSDS operation, soil vapor is extracted from each SDS, which creates a vacuum under the floor slab. Refer to Figure A-1 for extraction point locations. The piping system directs the extracted soil vapor to a common manifold and then conveys the vapor to the SSDS process equipment in the former pH Neutralization Building (Figure A-1). The soil vapor is directed through a moisture separator to remove water vapor, through an inline air filter to remove particulates, by means of the regenerative blower, then discharged to the atmosphere. The vacuum under the floor slab mitigates the potential for soil vapor to enter the indoor air.

2.3 REMEDIAL OPERATIONAL OBJECTIVES

The SSDS operational goal is to reduce the potential for sub-slab soil vapor intrusion (SVI) into the indoor air of the manufacturing building. The system operational objectives are as follows:

- Demonstrate a sufficient radius of vacuum influence in the sub-slab soil vapor environment beneath the building floor slab. The system achieves this by creating a negative differential pressure (vacuum) in the sub-slab environment relative to the indoor air. The Site-specific goal is defined as a constant vacuum in the sub-slab, regardless of heating, ventilation, and air conditioning (HVAC) conditions, maintained at or greater than 0.004 inches of water column (in. W.C.).
- Maintain and operate the system continuously without significant downtime.
- Demonstrate that the concentrations of target contaminants in the overall system influent vapor remain below the NYSDEC Division of Air Resources (DAR)-1 guidance values.

The operational goals, as recommended in the 2024 Annual Site Management Report (Tetra Tech, 2025), were successfully achieved during 2025 by performing the following activities:

- Monitoring the SSDS operation remotely on a daily basis to maintain virtually continuous operation, and responding to non-fatal and fatal alarms as required;
- Performing monthly physical system inspections to verify proper operation, and perform appropriate maintenance;
- Performing quarterly system OM&M, which included the following:
    - Recorded SDS vapor flowrates and vacuum levels, and differential pressure measurements at each VMP location;
    - Performed 24-hour continuous monitoring of differential pressure at select VMPs to verify that the SSDS is maintaining a continuous vacuum of 0.004 in. W.C. in the target areas;
    - Performed critical device testing to verify that the process control logic and instrumentation are functioning properly, and as designed; and
    - Collected system vapor samples during each quarterly monitoring event to monitor the effluent concentrations of Site-related volatile organic compounds (VOCs) to demonstrate and confirm that vapor phase treatment is not required to meet the air discharge limits.

3.0 OPERATION, MAINTENANCE, AND MONITORING ACTIVITIES

3.1 OPERATIONAL SUMMARY

The system was monitored via regular review of the daily system operational emails that are automatically generated and sent from the system PLC to system operators. System operational parameters are recorded during monthly Site inspections and quarterly system OM&M events. Table A-1 summarizes system monitoring data including applied vacuums and extracted vapor flow rates at each SDS, induced vacuum at each of the 25 monitoring points (VMP-1A through VMP-8D), and the combined system effluent flow rate flow transmitter (FT-301). Figure A-2 provides the average differential pressures measured at VMPs as part of the quarterly Site inspections.

System runtime and down-time are summarized in Table A-2. This report summarizes activities conducted during the calendar year, and system operational uptime is calculated for the calendar year. Note, operational data such as flow rates and mass removal are calculated using data between the dates of the last readings obtained in December 2024 and the last readings obtained in December 2025.

The SSDS operated with an approximately 96.80% run time during the reporting period (January – December 2025), with unscheduled maintenance and/or operational interruptions due to system alarm conditions.

Planned system shutdowns with durations less than three hours are not included in the system runtime calculation noted above. Shutdowns are discussed below in Section 3.5.

For every alarm occurrence, an Alarm Response Log was prepared to document the alarm and corrective actions and/or modifications made to the SSDS as a result. System alarms received during the reporting period are summarized in Section 3.6.

3.2 DAILY ROUTINE SYSTEM INSPECTIONS

Daily remote monitoring was performed during the reporting period. Monitoring included review of the daily system operational e-mails and/or logging onto the system remotely to confirm that the system was operational, that system variables were within their allowable ranges, and that no alarm conditions were present.

3.3 MONTHLY ROUTINE SYSTEM INSPECTIONS

Although the SSDS OMM calls generally for quarterly inspection and monitoring activities, certain system elements were inspected monthly in 2025, including:

- Gauge and PLC readings of various components' vacuum, temperature, and pressure;
- Normal blower operation;
- AWS, condensate collection points, and heat-trace outlet;

- Electrical usage and safety signage;
- SSDS vapor-exhaust vent screen;
- Process equipment valve positions and locks;
- Process piping; and
- Barometric pressure and ambient temperature (obtained from local weather station), noting whether barometric pressure is rising or falling.

Completed monthly OM&M log sheets are attached in Appendix A-1.

3.4 QUARTERLY SYSTEM OM&M AND INSPECTIONS

The system was monitored quarterly during the reporting period. Copies of completed quarterly log sheets are attached in Appendix A-1. Monitoring activities included collection of the monthly system data, and in addition the following data:

- Induced vacuum (instantaneous) at each VMP location;
- Applied vacuum at the blower and each SDS location;
- Extracted-vapor flow rates at each SDS location and system effluent; and
- 24-hour continuous monitoring of differential pressure at select VMPs.

The results of the system inspections are documented on the OM&M log sheets in Appendix A-1; key system parameters are summarized in Table A-1.

3.4.1 Checklist Items

In addition to the data collection noted above, the following critical system devices were inspected quarterly:

- System electrical disconnect switch;
- System hand-off-auto switches;
- Control panel indicator lights;
- Battery-operated uninterruptible power-supply;
- Electrical and safety signage;
- Inline filter (F-201);
- Vacuum transmitter located on the vacuum side of the blower B-200 (VT-201);
- Flowmeter located on the vacuum side of the blower B-200 (FT-301);
- Vacuum relief valve located on the vacuum side of the blower (VRV-200);
- High and High-High liquid-level switches located on air water separator AWS-200 tank (LSH-201 and LSHH-201);
- Pressure transmitter (PT) located on the pressure side of the blower B-200 (PT-201);
- Temperature transmitter (TT) located pre- and post- heat exchanger HX-300 (TT-201 and TT-301, respectively);
- SSDS vapor-exhaust vent screen;

- Process equipment valve locks;
- Process piping;
- Condensate collection points, and heat-trace outlet; and
- Wet Floor Sensor located below the VPGAC manifold (WFS-201).

2025 Quarterly OM&M events were performed on the following dates:

- January 6-9, 2025;
- April 2-4, 2025;
- July 1-3, 2025;
- October 6-9, 2025.

Critical devices were tested for proper operation as described in the SSDS OM&M Manual standard operating procedures (SOPs). All devices passed the testing for each event.

3.5 NON-ROUTINE OPERATION AND MAINTENANCE ACTIVITIES

Changes to operations in 2025 included bypassing the heat exchanger and replacing the system modem. These changes are described in greater detail in Section 3.6.

3.6 ALARM CONDITIONS AND SYSTEM MODIFICATIONS

System alarm conditions in 2025 included low pre-blower vacuum, high post-blower pressure, high post-blower temperature, and power outages. The alarm descriptions and the response actions taken are summarized in Table A-2 and Alarm Response Log generated for each alarm are included in Appendix A-2.

In February 2025, the SSDS alarmed and shut down because of ice blocking the effluent stack because of a condensate buildup. With VPGAC no longer being used, the heat exchanger was not needed to protect the VPGAC. The heat exchanger was bypassed allowing warmer emissions to minimize the potential for future ice formation.

During the spring and summer of 2025, there were several fatal alarms for high post-blower (TT-201) temperature (these are not related to bypassing the heat exchanger, the monitoring location is prior to the heat exchanger). The cause of the high temperatures is likely the relatively low system flow. The high temperature setting was moved up from 200°F to 220°F (and subsequently in 2026 to 240°F). Note that the maximum blower outlet air temperature is 284°F. As part of the ongoing control upgrade efforts, the second temperature switch (TT-301) will be moved to directly after the transition of the emissions piping from steel to PVC to protect the PVC from temperatures above 140°F.

Control upgrade efforts also included replacement of the system modem in December 2025 and installation of a temporary PLC. The PLC is being updated to reflect the current system configuration and will be reinstalled in early 2026.

4.0 ANALYTICAL MONITORING ACTIVITIES

4.1 QUARTERLY ANALYTICAL SAMPLING

SSDS vapor samples were collected quarterly. Samples were collected with 1-liter batch-certified Summa® canisters with quick-grab regulators. All samples were analyzed by Pace Analytical Laboratories of East Longmeadow, New York per United States Environmental Protection Agency (USEPA) "Method TO-15" for VOCs.

The pre-carbon (prior to December 2020) and more recent effluent (extracted vapor) analytical results are summarized in Table A-3. A time-series plot of the analytical results for the primary COCs for the extracted vapor analytical results is provided in Figure A-3. The laboratory analytical results for each sampling event are provided in Appendix A-3.

4.2 CONTINUOUS DIFFERENTIAL PRESSURE MONITORING

On January 6-9, April 2-4, July 1-3, and October 6-9, 2025, continuous monitoring of differential vacuum at select VMPs was performed using continuous logging micromanometers (OMNIGUARD™ 4). Differential vacuum was continuously monitored for a 24-hour period at each VMP location at least once during the reporting period. The micromanometer measures the differential vacuum approximately every second and performs a rolling average of the past 15 measurements. Only the maximum and minimum differential vacuum measurements over a five-minute period are recorded. Any differential vacuums measured between the maximum or minimum values during each five-minute period are not recorded during normal operation.

In the same fashion as in previous years, not all VMPs are monitored during each event; each VMP was monitored at least once during the reporting period, and some VMPs were tested more than once. The differential vacuum measured during each of the events are presented on Figure A-4 through A-35 and discussed in detail below in Section 5.3.2.

4.3 PREVIOUS ANNUAL VAPOR INTRUSION MONITORING

In previous years, annual vapor intrusion (VI) studies were performed that included sub-slab soil vapor and indoor air sampling to evaluate the effectiveness of the SSDS and monitor the current soil-vapor and indoor-air quality at the Site. Based on the findings of the 2015 study (Stantec, 2015) combined with historical results and the planned continued operation of the SSDS as a mitigation measure, Lockheed Martin proposed to suspend further annual VI studies for the eastern one-third of the building where the SSDS is located. NYSDEC and NYSDOH agreed to the proposed suspension of further annual studies in its letter to Lockheed Martin dated September 21, 2015 (NYSDEC, 2015). Accordingly, no vapor intrusion study was conducted in 2025.

5.0 SSDS PERFORMANCE RESULTS

The following subsections summarize the overall performance of the SSDS.

5.1 SSDS OPERATION

The SSDS operated continuously during the reporting period except for the down times noted above in Section 3.6 and on Table A-2. Overall runtime was approximately 96.80%.

Average instantaneous differential vacuum readings for the 25 vapor monitoring points 1A through 8D during the quarterly monitoring events range from a vacuum of 0.007 in. W.C. to 8.0 in. W.C. Average vacuum readings for SDS-1 through SDS-9 range from 1.5 in. W.C. to 79.25 in. W.C. It should be noted that the SDS-2, SDS-3, and SDS-4 applied vacuums are lower by design due to their higher extracted vapor flow rates. The average combined system influent flow rate for 2025 was approximately 129 scfm. Refer to Section 5.3.1 for more details.

The cumulative VOC mass removed by the SSDS was calculated based on the extracted vapor concentrations and total system flow rates (Table A-3). Although the intended purpose of the system is to minimize vapor intrusion into indoor air, the system is also removing VOC mass from the sub-slab area. Cumulative VOC-mass removed from the sub-slab area is summarized in Table A-4. From the start of SSDS operations in July 2008 through December 2025, the system has removed 12.038 pounds of target VOCs. The VOC concentrations in the effluent (same as extracted vapor because carbon treatment was ended in December 2020) over the reporting period were used, along with historic concentrations, to find maximum effluent concentrations. From each maximum effluent concentration, an actual annual impact value was calculated for each contaminant. When evaluated against the allowable short-term guideline concentration (SGC) and annual guideline concentration (AGC) values in NYSDEC DAR-1, there were no exceedances. The individual VOCs emitted, their historical maximum effluent concentrations, actual annual impact values, and AGCs and SGCs, as per NYSDEC DAR-1, are shown in Table A-5.

As discussed in Section 2.0, the air discharge from the regenerative blower does not need to be treated with the VPGAC treatment units as per the NYSDEC correspondence dated October 28, 2020.

5.2 ANALYTICAL RESULTS

Vapor analytical data for extracted vapor samples are summarized in Table A-3. Figure A-3 shows the plot of vapor VOC concentration versus time for TCE, PCE, total dichloroethene (DCE; values represent combined concentrations of 1,1-DCE, cis-1,2-DCE, and trans-1-2, DCE).

The extracted vapor sample results for TCE, PCE, and total DCE concentrations have remained stable at low concentrations (See Table A-3 and Figure A-3).

5.3 DIFFERENTIAL PRESSURE MONITORING RESULTS

As discussed in Section 4, differential pressure between the indoor air and sub-slab environment was measured at each VMP and at each sump during the quarterly events. The differential pressures recorded at each VMP were used to monitor performance of the system and its ability to maintain the desired vacuum in the soil vapor beneath the building floor slab. The differential pressures recorded are discussed in detail below.

5.3.1 Instantaneous Measurement

Instantaneous differential pressures were recorded at each VMP with a handheld digital micromanometer; these data are summarized and shown on Table A-1. The average instantaneous differential pressure values for each VMP are shown in Figure A-2. Note that the differential pressure observed at VMP locations may reflect influence by more than one SDS location.

The area of influence induced by sumps SDS-1 through SDS-7 continues to include the eastern and northern Molding Facilities, CET Room in the north, and a main hallway and Warehouse Area J to the south and east. With the installation of sump SDS-8 at the end of 2013, the applied vacuum in the Warehouse Area J room was strengthened and the system's overall area of influence expanded to include the Molding Offices and a portion of the Molding Raw Material Storage Room to the south. The new extraction sump, SDS-9 was installed in December 2020. Average readings from 2025 of VMP-8C and VMP-8D show that these points have higher and consistent vacuum readings above the minimum criteria of 0.004 inches of water. Figure A-2 depicts this data on a map of the system layout. Table A-6 summarizes the average instantaneous vacuum readings collected during the quarterly monitoring events as well as the distance and direction of VMPs relative to associated sumps.

5.3.2 Continuous Datalogging

In addition to recording instantaneous differential pressures, and as discussed in Section 4.2, continuous datalogging micromanometers were used during quarterly events to monitor differential pressure over a 24-hour period. Every VMP was tested at least once and some were tested multiple times during the year, in accordance with the recommendations of the 2014 OM&M Annual Report. This data was obtained to complement the instantaneous readings and to observe potential variations in sub-slab vacuum due to HVAC system operation, variation in barometric pressure, or other factors.

The 24-hour continuous data generally indicates that vacuum varies slightly over the course of a day at certain VMPs, as shown in several of the plots included in Figure A-4 through A-35. The data indicates that the SSDS performance may be slightly affected (decrease in sub-slab vacuum) by HVAC, barometric pressure, or other external influences at some locations.

The differential pressures recorded at each VMP, as described above, demonstrate that the SSDS is providing a sufficient vacuum in the sub-slab environment to mitigate the potential migration of sub-slab soil gas to indoor air.

6.0 2026 GOALS AND RECOMMENDATIONS

The information presented in this report indicates that the SSDS has generally operated as designed.

Continued operation, maintenance, and monitoring activities will be implemented during 2026, and are described in the sections below.

6.1 GOALS

The SSDS 2026 remedial and operational goals remain unchanged from those noted in Section 2.3. The SSDS operation will continue to be monitored via the daily system data received from the PLC, monthly visual inspections, quarterly testing, and prompt response to alarms.

The operational data to be collected include:

- Review of the daily automated system operation status email logs to virtually ensure continuous operation of the SSDS;
- Monthly system physical inspection to verify the operation of the system and to perform minimal maintenance required to maintain proper operation (e.g., inspection, draining of condensate, etc.);
- Quarterly system inspection information and required OM&M and system performance monitoring data, including the recording of flows, pressures, temperatures, and differential pressure measurements at SDSs and VMPs to verify the performance of the system;
- Quarterly collection of a vapor sample of the system effluent to monitor the mass removal of Site-related VOCs and confirm compliance with the NYSDEC Division of Air Resources;
- Quarterly 24-hour continuous monitoring of differential pressure at eight to ten select VMPs using continuous logging micromanometers to verify the system performance goal of maintaining a continuous vacuum of 0.004 in. W.C. in the areas of the Site noted above in Section 2.3; and,
- Quarterly critical device testing to verify that the control logic and instrumentation are functioning properly and as designed.

6.2 RECOMMENDATIONS

Review and analysis of SSDS monitoring data for the 2025 reporting period indicates that the system is successful at mitigating sub-slab impacts and the optimization measures conducted in 2020 have had a positive effect on the operation of the SSDS. Recommendations for the next reporting period (January–December 2026) include:

- Continue operation and maintenance of the SSDS;
- Continue system performance vacuum monitoring and effluent sampling;
- Continue preventive maintenance to maintain system reliability;
- Update the OM&M Plan as needed to include system modifications.

7.0 REFERENCES

ARCADIS, 2008 — *Revised Work Plan for the Interim Corrective Measure, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York*. [revised] April 30, 2008.

ARCADIS, 2010 — *Sub-Slab Depressurization System 100% Design Work Plan, Former Lockheed Martin French Road Facility, Utica, New York*. February 16, 2010.

NYSDEC, 2008 — *Order on Consent, Index # CO 6-20080321-5, Site Code # 633036A*. October 3, 2008.

NYSDEC, 2015 — *Re: 2015 Annual Vapor Intrusion Study and Work Plan for Soil Vapor Intrusion Sampling; Former Lockheed Martin French Road Facility; Utica, Oneida County, New York; Site No. 633036A*. September 21, 2015.

NYSDEC, 2020 — *Approval letter for the OM&M Modifications*, Former Lockheed Martin Corporation French Road Facility, Utica, New York. August 3, 2020.

Stantec, 2015 — *2015 Annual Vapor Intrusion Study, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York*. August 2015.

Tetra Tech, 2020 — *2019 Annual Site Management Report, Former Lockheed Martin French Road Facility, Utica, New York*. March 2020.

Tetra Tech, 2021 — Sub Slab Depressurization System Operational, Maintenance, and Monitoring Plan, Former Lockheed Martin French Road Facility, Utica, New York. February 2021.

Tetra Tech, 2025 — 2024 Annual Site Management Report, Former Lockheed Martin French Road Facility, Utica, New York. March 2025.

TABLES

Table A-1. Sub-Slab Depressurization System Monitoring Data
Former Lockheed Martin French Road Facility, Utica, New York

Date	Pressure (In. W.C.)									Combined Influent Flow Rate (scfm)[1]	Differential Pressure at VMPs [In. W.C.]																				
	SDS-1	SDS-2[3]	SDS-3	SDS-4[3]	SDS-5	SDS-6	SDS-7	SDS-8	SDS-9		1A	1B	1C	2A	2B	2C	3A	3B	3C	3D	3E	4	5	5A	5B	6	6A	6B	7	7A	7B	8A	8B	8C	8D
07/17/08	-20.5	-19.8	-19.0	-	-	-	-	-	-	102	0.004	-0.080	-0.035	-1.281	-3.516	-3.046	0.005	-0.019	-0.011	-0.014	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08/12/08	-28.0	-28.0	-26.0	-	-	-	-	-	-	55	0.018	-0.087	-0.014	-0.370	-1.028	-	0.020	-0.017	-0.007	-0.011	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/11/08	-28.0	-28.0	-26.0	-	-	-	-	-	-	78	0.015	-0.101	-0.021	-0.236	-0.657	-0.554	0.009	-0.035	-0.024	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/25/08	-25.5	-26.0	-23.8	-	-	-	-	-	-	76	0.000	-0.082	-0.031	-0.362	-0.974	-0.828	0.004	-0.040	-0.033	-0.040	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/08	-21.0	-22.0	-18.0	-	-	-	-	-	-	81	-0.032	-0.011	-0.063	-0.317	-0.833	-0.711	-0.003	-0.058	-0.043	-0.052	-0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/17/08	-22.3	-23.0	-19.7	-	-	-	-	-	-	86	0.000	-0.052	-0.033	-0.357	-0.662	-0.807	-0.003	-0.052	-0.034	-0.047	-0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/07/09	-18.0	-19.0	-15.5	-	-	-	-	-	-	91	0.000	-0.040	-0.025	-0.593	-1.317	-1.483	0.003	-0.044	-0.028	-0.041	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05/05/09	-18.0	-20.0	-16.0	-	-	-	-	-	-	91	0.000	0.000	-0.009	0.000	-0.034	-1.082	-0.030	-0.026	-0.042	0.012	-0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05/29/09	-16.0	-17.8	-17.0	-	-	-	-	-	-	91	-0.005	-0.233	-0.031	-0.642	-1.745	-1.613	0.000	-0.052	-0.039	-0.044	-0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/01/09	-18.7	-18.2	-14.0	-	-	-	-	-	-	90	0.008	-0.184	-0.014	-0.681	-1.856	-1.608	0.000	-0.048	-0.035	-0.032	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08/14/09	-19.0	-18.0	-14.0	-	-	-	-	-	-	88	0.000	-0.189	-0.010	-0.755	-1.980	-1.305	0.000	-0.037	-0.040	-0.039	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/30/09	-19.0	-13.0	-7.0	-	-	-	-	-	-	100	0.000	-0.198	-0.033	-0.739	-2.002	-1.147	-0.002	-0.038	-0.040	-0.043	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/09/09	-19.0	-12.9	-7.3	-	-	-	-	-	-	99	-0.004	-0.217	-0.030	-0.708	-2.053	-1.758	-0.002	-0.036	-0.041	-0.050	-0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/09	-18.0	-14.0	-6.5	-	-	-	-	-	-	98	0.000	-0.201	-0.029	-0.750	-2.034	-1.155	0.000	-0.037	-0.028	-0.035	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/09	-17.5	-13.0	-6.5	-	-	-	-	-	-	97	0.000	-0.107	-0.026	-0.762	-2.085	-1.118	0.000	-0.036	-0.021	-0.031	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/12/10	-17.8	-13	-7.0	-	-	-	-	-	-	93	0.000	-0.025	-0.038	-0.777	-2.110	-1.158	-0.004	-0.046	-0.030	-0.042	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/03/10	-17.5	-13	-6.5	-	-	-	-	-	-	111	-0.011	-0.157	-0.027	-0.759	-1.566	-1.835	-0.003	-0.040	-0.023	-0.035	-0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/03/10	-17.5	-13	-6.5	-	-	-	-	-	-	127	0.003	-0.136	-0.026	-0.752	-2.059	-1.794	0.003	-0.043	-0.026	-0.036	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/07/10	-17.0	-18.0	-7.0	-	-	-	-	-	-	118	0.004	-0.224	-0.032	-0.755	-2.074	-1.809	-0.007	-0.047	-0.033	-0.042	-0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05/05/10	-17.0	-18.0	-7.0	-	-	-	-	-	-	82	-0.008	-0.180	-0.031	-0.760	-2.101	-1.845	-0.004	-0.043	-0.029	-0.041	-0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/03/10	-17.0	-17.9	-6.8	-	-	-	-	-	-	81	-0.006	-0.162	-0.033	-0.748	-1.317	-1.807	-0.010	-0.037	-0.025	-0.042	-0.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/08/10	-17.0	-18.0	-15.0	-	-	-	-	-	-	86	-0.003	-0.164	-0.031	-0.736	-1.985	-1.766	-0.004	-0.039	-0.035	-0.041	-0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08/05/10	-17.8	-18.0	-15.2	-	-	-	-	-	-	85	0.000	-0.156	-0.040	-0.765	-2.073	-1.825	0.000	-0.049	-0.034	-0.040	-0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/07/10	-17.5	-18.0	-16.0	-	-	-	-	-	-	86	-0.004	-0.171	-0.045	-0.776	-2.098	-1.861	0.000	-0.044	-0.032	-0.041	-0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/06/10	-18.5	-19.0	-16.0	-	-	-	-	-	-	87	0.018	-0.140	-0.048	-0.807	-2.117	-1.879	0.000	-0.048	-0.142	-0.041	-0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/02/10	-20.0	-21.0	-19.0	-	-	-	-	-	-	90	0.006	-0.160	-0.052	-0.824	-2.156	-1.892	-0.003	-0.040	-0.115	-0.037	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/30/10[2]	-52.0	-8.0	-14.0	-	-	-	-	-	-	58	0.000	-0.395	-0.111	-0.540	-1.500	-1.400	0.006	-0.012	-0.036	-0.008	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/05/11	-56.0	-1.4	-0.8	-1.0	-36.7	-54.1	-38.5	-	-	92	-0.003	-0.419	-0.114	-0.105	-0.261	-0.238	-0.083	-0.008	-0.018	-0.015	-0.011	-0.035	-0.127	-0.014	-0.003	-0.080	-0.009	-0.025	-0.020	0.000	-0.072	-	-	-	-
02/28/11	-67.8	-0.5	-1.9	-0.6	-55.5	-66.2	-66.2	-	-	64	-0.009	-0.490	-0.135	-0.049	-0.119	-0.110	-0.041	-0.013	-0.035	-0.018	-0.005	-0.012	-0.406	-0.041	-0.022	-0.190	0.000	-0.030	-0.028	0.000	-0.109	-	-	-	-
03/04/11	-68.2	-1.0	-0.6	-1.5	-58.0	-67.5	-67.0	-	-	82	-0.007	-0.525	-0.138	-0.091	-0.020	-0.180	-0.046	-0.012	-0.028	-0.014	-0.005	-0.037	-0.525	-0.041	-0.024	-0.200	-0.008	-0.049	-0.022	0.000	-0.118	-	-	-	-
04/04/11	-67.0	-1.0	-3.0	-1.0	-57.0	-67.0	-66.0	-	-	77	-0.015	-0.514	-0.139	-0.035	-0.094	-0.059	-0.047	-0.012	-0.032	-0.017	-0.013	-0.030	-0.133	-0.054	-0.033	-0.215	-0.045	0.055	-0.135	0.000	-0.098	-	-	-	-
05/12/11	-67.0	< -1.0	-3.0	< -1.0	-55.0	-65.0	-65.5	-	-	78	-0.022	-0.499	-0.136	-0.050	-0.118	-0.109	-0.050	-0.010	-0.030	-0.016	-0.009	-0.034	-0.211	-0.044	-0.031	-0.210	-0.006	-0.031	-0.018	0.000	-0.106	-	-	-	-
06/02/11	-70.0	< -1.0	-3.0	< -1.0	-57.0	-66.0	-70.0	-	-	83	-0.026	-0.520	-0.134	-0.055	-0.123	-0.100	-0.050	-0.011	-0.018	-0.018	-0.018	-0.049	-0.290	-0.041	-0.033	-	-0.025	-0.052	-0.043	0.000	-0.106	-	-	-	-
07/06/11	-66.0	< -1.0	-4.0	< -1.0	-56.0	-67.0	-65.0	-	-	128	-0.014	-0.450	-0.122	-0.090	-0.093	-0.080	-0.038	-0.014	-0.042	-0.019	-0.014	-0.028	-0.542	-0.045	-0.031	-0.229	-0.004	-0.036	-0.017	0.000	-0.009	-	-	-	-
08/11/11	-67.0	< -1.0	-3.0	< -1.0	-56.0	-65.0	-66.0	-	-	102	-0.024	-0.428	-0.148	-0.044	-0.093	-0.087	-0.052	-0.012	-0.038	-0.022	-0.018	-0.042	-0.602	-0.056	-0.032	-0.235	-0.023	-0.037	-0.022	0.000	-0.096	-	-	-	-
09/08/11	-72.0	-0.437	-1.35	-0.632	-55.0	-63.5	-63.5	-	-	78	-0.023	-0.550	-0.152	-0.047	-0.100	-0.094	-0.050	-0.011	-0.038	-0.020	-0.013	-0.037	-0.545	-0.046	-0.030	-0.230	-0.003	-0.027	-0.014	0.000	-0.101	-	-	-	-
10/12/11	-69.0	-0.430	-3.00	-0.590	-58.0	-68.0	-68.0	-	-	62	-0.010	-0.469	-0.147	-0.039	-0.097	-0.091	-0.060	-0.011	-0.033	-0.019	-0.018	-0.032	-0.412	-0.047	-0.032	-0.005	-0.011	-0.024	-0.017	0.000	-0.096	-	-	-	-
11/01/11	-71.0	-0.431	-1.33	-0.630	-61.0	-71.0	-71.0	-	-	76	-0.021	-0.539	-0.161	-0.023	-0.100	-0.061	-0.056	-0.016	-0.035	-0.020	-0.014	-0.038	-0.588	-0.480	-0.029	-0.230	-0.010	-0.026	-0.017	0.000	-0.109	-	-	-	-
12/01/11	-73.0	-0.282	-3.00	-0.599	-62.0	-72.0	-72.0	-	-	82	-0.019	-0.545	-0.160	-0.024	-0.048	-0.054	-0.067	-0.010	-0.028	-0.016	-0.012	-0.035	-0.641	-0.066	-0.041	-0.242	-0.021	-0.033	-0.019	-0.002	-0.112	-	-	-	-
01/11/12	-72.0	-0.554	-2.75	-0.587	-61.8	-70.0	-71.0	-	-	76	-0.017	-0.559	-0.158	-0.045	-0.094	-0.090	-0.060	-0.006	-0.015	-0.011	-0.008	-0.046	-0.624	-0.053	-0.031	-0.235	-0.029	-0.036	-0.028	-0.006	-0.118	-	-	-	-
02/09/12	-72.8	-0.797	-2.75	-0.594	-62.3	-72.0	-72.0	-	-	74	-0.018	-0.059	-0.160	-0.070	-0.150	-0.146	-0.065	-0.012	-0.023	-0.015	-0.009	-0.046	-0.432	-0.053	-0.029	-0.238	-0.016	-0.036	-0.025	-0.004	-0.124	-	-	-	-
03/01/12	-72.8	-0.870	-3.00	-0.624	-64.0	-72.3	-72.0	-	-	68	-0.008	-0.592	-0.160	-0.076	-0.173	-0.167	-0.062	-0.011	-0.025	-0.015	-0.008	-0.052	-0.628	-0.058	-0.031	-0.239	-0.020	-0.033	-0.026	-0.004	-0.123	-	-	-	-
04/03/12	-75.5	-0.828	-1.09	-0.625	-68.0	-72.5	-72.1	-	-	70	-0.034	-0.583	-0.165	-0.078	-0.167	-0.163	-0.063	-0.023	-0.023	-0.017	-0.011	-0.057	-0.633	-0.052	-0.035	-0.244	0.000	-0.024	-0.021	-0.004	-0.121	-	-	-	-
05/01/12	-74.0	-0.850	-3.00	-0.632	-64.0	-72.8	-72.3	-	-	66	-0.022	-0.559	-0.160	-0.074	-0.166	-0.156	-0.063	-0.012	-0.025	-0.017	-0.013	-0.055	-0.677	-0.054	-0.035	-0.249	-0.024	-0.043	-0.028	0.000	-0.119	-	-	-	-
06/07/12	-74.0	-0.830	-2.00	-0.633	-65.0	-74.0	-71.5	-	-	70	-0.020	-0.572	-0.156	-0.072	-0.163	-0.150	-0.063	-0.013	-0.030	-0.018	-0.012	-0.059	-0.689	-0.053	-0.360	-0.249	-0.005	-0.021	-0.030	-0.003	-0.112	-	-	-	-
07/11/12	-72.5	-0.850	-1.07	-0.640	-63.5	-71.9	-72.0	-	-	87	-0.030	-0.563	-0.164	-0.071	-0.160	-0.148	-0.061	-0.013	-0.033	-0.021	-0.018	-0.050	-0.700	-0.054	-0.040	-0.256	-0.004 to -0.009	-0.035	-0.020	0.000	-0.111	-	-	-	-
08/15/12	-75.0	-0.828	-2.00	-0.632	-64.0	-73.0	-72.5	-	-	72	-0.022	-0.578	-0.160	-0.079	-0.164	-0.155	-0.065	-0.018	-0.027	-0.019	-0.015	-0.057	-0.693	-0.056	-0.040	-0.252	-0.013	-0.028	-0.031	0.000	-0.109	-	-	-	-
09/11/12	-77.0	-0.821	-2.00	-0.633	-62.0	-75.3	-72.3	-	-	69	-0.024	-0.569	-0.162	-0.080	-0.160	-0.159	-0.070	-0.018	-0.029	-0.022	-0.013	-0.064	-0.701	-0.056	-0.035	-0.250	-0.020	-0.029	-0.032	0.000	-0.115	-	-	-	-
10/17/12	-74.8	-0.768	-1.25	-0.979	-64.7	-73.9	-74.1	-	-	74	-0.015	-0.561	-0.163	-0.068	-0.154	-0.141	-0.067	-0.009	-0.029	-0.021	-0.021	-0.044	-0.715	-0.062	-0.035	-0.255	-0.006	-0.033	-0.015	0.000	-0.118	-	-	-	-
11/08/12	-76.0	-0.825	-2.25	-0.642	-64.3	-74.3	-74.3	-	-	71	-0.020	-0.572	-0.161	-0.082	-0.160	-0.155	-0.063	-0.019	-0.028	-0.017	-0.021	-0.060	-0.716	-0.050	-0.029	-0.243	-0.014	-0.034	-0.039	0.000	-0.116	-	-	-	-
01/15/13	-76.8	-0.768	-1.03	-0.970	-65.2	-75.2	-75.5	-	-	91	-0.013	-0.532	-0.161	-0.070	-0.157	-0.142	-0.063	-0.009	-0.024	-0.018	-0.016	-0.041	-0.700	-0.045	-0.032	-0.227	0.000	-0.019	-0.016	0.000	-0.119	-	-	-	-
04/23/13	-76.1	-0.853	-1.04	-0.963	-66.2	-75.9	-75.2	-	-	67	0 to -0.008	-0.525	-0.150	-0.780	-0.175	-0.162	-0.063	-0.008	-0.025	-0.018	-0.017 to -0.022	-0.045	-0.710	-0.051	-0.031	-0.221	-0.007 to -0.009	-0.011	-0.021 to -0.024	0.000	-0.106	-	-	-	-
07/10/13	-73.0	-0.895	-2.50	-0.973	-64.0	-73.0	-72.0	-	-	73	-0.025	-0.435	-0.150	-0.085	-0.195	-0.184	-0.067	-0.012	-0.025	-0.023	-0.022	-0.048	-0.686	-0.055	-0.039	-0.210	-0.023	-0.036	-0.063	0.000	-0.130	-	-	-	-
10/21/13	-74.0	-0.888	-0.40	-0.995	-64.0	-73.0	-74.0	-62.0	-	101	-0.024 to -0.031	-0.500	-0.142	-0.081	-0.193	-0.179	-0.064	-0.012	-0.028	-0.023	-0.025	-0.033	-0.720	-0.052	-0.036	-0.206	-0.006 to -0.011	-0.032	-0.037	0.000	-0.134	-2.988	-13.9	-0.006	-0.326
2013 Average[4]:	**-75.0**	**-0.851**	**-1.24**	**-0.975**	**-64.9**	**-74.3**	**-74.2**	**-62.0**		**83**	**-0.017**	**-0.498**	**-0.151**	**-0.254**	**-0.180**	**-0.167**	**-0.064**	**-0.010**	**-0.026**	**-0.021**	**-0.021**	**-0.042**	**-0.704**	**-0.051**	**-0.035**	**-0.216**	**-0.010**	**-0.025**	**-0.035**	**0.000**	**-0.122**	**-2.988**	**-13.900**	**-0.006**	**-0.326**
02/05/14	-71.0	-1.2	-1.1	-1.0	-63.0	-70.0	-70.0	-66.0	-	88	0.005 to 0.015	-0.465	-0.130	-0.092	-0.190	-0.203	-0.058	-0.007	-0.022	-0.014	-0.015	-0.075	-0.608	-0.056	-0.027	-0.174	-0.977	-0.314	-1.080	-0.220	-0.141	-3.065	-10	-0.003 to 0.004	-0.515 to 0.700
04/02/14	-63.9	-1.0	-1.0	-1.0	-55.2	-61.4	-62.0	-61.0	-	119	-0.007	-0.441	-0.122	-0.085	-0.181	-0.171	-0.056	-0.009	-0.021	-0.015	-0.013	0.009	-0.669	-0.055	-0.031	-0.205	-0.967	-0.326	-1.042	-15	-0.140	-2.992	-8.25	-0.004 to 0	-0.029 to -0.013
07/09/14	-63.0	-1.0	-2.0	-1.1	-55.0	-62.0	-63.0	-60.0	-	103	-0.019	-0.427	-0.130	-0.083	-0.182	-0.174	-0.053	-0.010	-0.029	-0.021	-0.022	-0.052	-0.692	-0.053	-0.036	-0.217	-0.912	-0.311	-0.952	-15.000	-0.135	-2.830	-13.000	-0.006	-0.017
10/08/14	-67.0	-3.0	-3.0	-2.5	-58.0	-65.0	-68.0	-65.5	-	95	-0.034	-0.397	-0.146	-0.082	-0.176	-0.173	-0.004	-0.012	-0.029	-0.025	-0.029	-0.070	-0.711	-0.054	-0.042	-0.229	-1.054	-0.382	-1.154	-5.000	-0.152	-3.176	-5.000	-0.006	-0.029
2014 Average[4]:	**-66.2**	**-1.5**	**-1.8**	**-1.4**	**-57.8**	**-64.6**	**-65.8**	**-63.1**		**101.2**	**-0.013**	**-0.433**	**-0.132**	**-0.086**	**-0.182**	**-0.180**	**-0.043**	**-0.010**	**-0.025**	**-0.019**	**-0.020**	**-0.047**	**-0.670**	**-0.055**	**-0.034**	**-0.206**	**-0.978**	**-0.333**	**-1.057**	**-8.805**	**-0.142**	**-3.016**	**-9.063**	**-0.003**	**0.006**
01/08/15	-67.0	-0.3	-1.0	-0.5	-65.0	-65.0	-66.0	-64.0	-	97	-0.006	-0.482	-0.135	-0.078	-0.176	-0.177	0.0 to -0.61	-0.019	-0.052	-0.026	-0.010	-0.058	-0.751	-0.067	-0.029	-0.242	-0.909	-0.348	-0.998	-15.000	-0.147	-2.817	-11.000	-0.006	0.000
04/16/15	-64.0	-1.0	-2.0	-1.0	-64.0	-64.0	-65.0	-61.0	-	98	-0.018	-0.413	-0.137	-0.082	-0.181	-0.177	-0.148	-0.019	-0.053	-0.031	-0.026	-0.059	-0.754	-0.064	-0.038	-0.239	-0.954	-0.320	-1.043	-15.000	-0.171	-2.919	-12.5	-0.006	-0.022
07/07/15	-65.0	-3.0	-4.0	-3.0	-65.0	-66.0	-66.0	-63.0	-	238	-0.021	-0.415	-0.141	-0.096	-0.208	-0.198	-0.142	-0.020	-0.060	-0.030	-0.022	-0.059	-0.774	-0.063	-0.045	-0.240	-0.944	-0.288	-0.915	-15.000	-0.134	-3.255	-15.000	-0.006	-0.024
10/05/15	-66.0	-0.5	-2.0	-1.5	-65.0	-65.0	-66.0	-64.0	-	81	-0.019	-0.340	-0.137	-0.088	-0.005	-0.192	-0.102	-0.019	-0.057	-0.031	-0.023	-0.055	-0.766	-0.061	-0.042	-0.245	-0.932	-0.333	-0.963	-28.000	-0.145	-3.175	-13.5	-0.006	-0.026
2015 Average[4]:	**-65.5**	**-1.2**	**-2.3**	**-1.5**	**-64.8**	**-65.0**	**-65.8**	**-63.0**		**128.6**	**-0.016**	**-0.413**	**-0.138**	**-0.086**	**-0.143**	**-0.186**	**-0.174**	**-0.019**	**-0.056**	**-0.030**	**-0.020**	**-0.058**	**-0.761**	**-0.064**	**-0.039**	**-0.242**	**-0.935**	**-0.322**	**-0.980**	**-18.250**	**-0.149**	**-3.042**	**-13.000**	**-0.006**	**-0.018**

Table A-1. Sub-Slab Depressurization System Monitoring Data
Former Lockheed Martin French Road Facility, Utica, New York

Date	Pressure (In. W.C.)									Combined Influent Flow Rate (scfm)[1]	Differential Pressure at VMPs [In. W.C.]																				
	SDS-1	SDS-2[3]	SDS-3	SDS-4[3]	SDS-5	SDS-6	SDS-7	SDS-8	SDS-9		1A	1B	1C	2A	2B	2C	3A	3B	3C	3D	3E	4	5	5A	5B	6	6A	6B	7	7A	7B	8A	8B	8C	8D
1/5/2016[5]	-80.0	-1.0	-1.5	-1.0	-80.0	-80.0	-80.0	-79.0	-	110	-0.008	-0.480	-0.152	-0.092	-0.197	-0.195	-0.110	-0.016	-0.035	-0.021	-0.025	-0.054	-0.793	-0.068	-0.039	-0.237	-0.944	-0.321	-0.952	-30.000	-0.167	-3.154	-13.500	-0.006	-0.025
4/6/2016[6]	-64.0	-1.0	-4.0	-2.0	-63.0	-64.0	-64.0	-62.0	-	106	-0.005	-0.256	-0.113	-0.085	-0.191	-0.174	-0.099	-0.013	-0.037	-0.020	-0.007	-0.042	-0.645	-0.060	-0.033	-0.190	-0.735	-0.265	-0.725	-23.000	-0.136	-2.468	-12	-0.004	-0.021
07/14/16	-60.0	-1.0	-2.5	-1.0	-62.0	-60.0	-63.0	-60.0	-	133	-0.015	-0.333	-0.113	-0.087	-0.197	-0.184	-0.104	-0.019	-0.051	-0.030	-0.025	-0.050	-0.755	-0.060	-0.039	-0.230	-0.941	-0.317	-0.937	-32.000	-0.133	-3.297	-16	-0.005	-0.024
10/12/16	-62.0	-1.0	-4.0	-0.5	-62.0	-64.0	-60.0	-62.0	-	79	-0.006	-0.073	-0.110	-0.090	-0.203	-0.192	-0.097	-0.019	-0.050	-0.023	-0.013	-0.053	-0.732	-0.074	-0.035	-0.222	-0.926	xxxx	-0.939	-32.000	-0.140	-3.24	-16	-0.005	-0.025
2016 Average:	**-66.5**	**-1.0**	**-3.0**	**-1.1**	**-66.8**	**-67.0**	**-66.8**	**-65.8**		**107.2**	**-0.009**	**-0.286**	**-0.122**	**-0.089**	**-0.197**	**-0.186**	**-0.103**	**-0.017**	**-0.043**	**-0.024**	**-0.018**	**-0.050**	**-0.731**	**-0.066**	**-0.037**	**-0.220**	**-0.887**	**-0.301**	**-0.888**	**-29.250**	**-0.144**	**-3.040**	**-14.375**	**-0.005**	**-0.024**
01/10/17	-62.0	-2.0	-2.0	-2.0	-63.0	-63.0	-63.0	-62.0	-	61	0.015	-0.247	-0.098	-0.078	-0.179	-0.152	-0.087	-0.011	-0.033	-0.016	-0.004	-0.023	-0.665	-0.058	-0.030	-0.183	-0.797	-0.285	-0.799	-28.000	-0.142	-2.816	-12.000	0.000	-0.021
04/13/17	-62.0	-1.0	-2.0	-1.5	-62.0	-63.0	-63.0	-62.0	-	71	-0.016	-0.277	-0.115	-0.080	-0.188	-0.177	-0.088	-0.017	-0.450	-0.021	-0.010	-0.063	-0.721	-0.058	-0.047	-0.217	-0.820	-0.305	-0.778	-0.250	-0.135	-2.660	-0.250	-0.004	-0.021
07/19/17	-62.0	-1.0	-2.0	-1.0	-62.0	-62.0	-64.0	-62.0	-	120	-0.020	-0.301	-0.115	-0.091	-0.191	-0.151	-0.074	-0.017	-0.050	-0.029	-0.020	-0.050	-0.765	-0.060	-0.042	-0.235	-0.604	-0.205	-0.559	-0.250	-0.126	-2.150	-2.500	-0.032	-0.015
10/03/17	-64.0	-1.0	-2.9	-1.0	-62.0	-62.0	-63.0	-60.0	-	81	-0.012	-0.129	-0.109	-0.081	-0.182	-0.175	-0.009	-0.019	-0.045	-0.026	-0.014	-0.044	-0.733	-0.060	-0.040	-0.230	-0.936	-0.321	-0.952	-32.000	-0.133	-3.218	-16.000	-0.004	-0.025
2017 Average	-62.5	-1.3	-2.2	-1.4	-62.3	-62.5	-63.3	-61.5		**83.2**	-0.008	-0.239	-0.109	-0.083	-0.185	-0.164	-0.065	-0.016	-0.145	-0.023	-0.012	-0.045	-0.721	-0.059	-0.040	-0.216	-0.789	-0.279	-0.772	-15.125	-0.134	-2.711	-7.688	-0.010	-0.021
1/2/2018 [7]	-68.0	-1.0	-2.0	-1.5	-62.0	-65.0	-64.0	-62.0	-	53	0.000	-0.172	-0.102	-0.079	-0.172	-0.157	-0.075	-0.013	-0.030	-0.140	-0.004	-0.032	-0.512	-0.047	-0.022	-0.155	-0.797	-0.262	-0.764	-0.180	-0.128	-2.733	-1.400	0.000	-0.020
04/02/18	-62.0	-1.0	-2.0	-1.5	-62.0	-62.0	-63.0	-62.0	-	80	-0.004	-0.340	-0.109	-0.086	-0.178	-0.139	-0.078	-0.014	-0.036	-0.023	-0.011	-0.047	-0.278	-0.055	-0.033	-0.184	-0.669	-0.241	-0.425	-25.000	-0.132	-2.541	-14.000	-0.005	-0.025
07/10/18	-62.0	-1.0	-2.0	-1.5	-62.0	-62.0	-60.0	-60.0	-	117	-0.020	-0.271	-0.116	-0.077	-0.162	-0.168	-0.007	-0.018	-0.047	-0.028	-0.014	-0.034	-0.693	-0.058	-0.040	-0.212	-0.870	-0.320	-0.815	-2.000	-0.129	-2.000	-16.000	-0.005	-0.025
10/9/218 [8]	-62.0	-1.0	-4.0	-1.0	-62.0	-62.0	-62.0	-60.0	-	93	-0.020	-0.212	-	-0.077	-0.170	-0.160	-0.007	-0.015	-0.046	-0.048	-0.004	-0.013	-0.705	-0.063	-0.039	-0.021	-0.848	-0.309	-0.493	-34.000	-0.137	-3.182	-16.000	-0.004	-0.023
2018 Average	-63.5	-1.0	-2.5	-1.4	-62.0	-62.8	-62.3	-61.0		**85.8**	-0.011	-0.249	-0.109	-0.080	-0.171	-0.156	-0.042	-0.015	-0.040	-0.060	-0.008	-0.032	-0.547	-0.056	-0.034	-0.143	-0.796	-0.283	-0.624	-15.295	-0.132	-2.614	-11.850	-0.004	-0.023
1/2/2019 [9]	-68.0	-1.0	-2.0	-1.5	-64.0	-64.0	-64.0	-62.0	-	62	-0.004	-0.254	-0.094	-0.072	-0.151	-0.154	-0.009	-0.013	-0.036	-0.120	-0.008	-0.009	-0.597	-0.056	-0.032	-0.170	-0.815	-0.277	-0.757	-34.000	-0.136	-2.878	-18.000	0.000	-0.021
04/01/19	-78.0	-1.0	-80.0	-1.7	-78.0	-76.0	-77.0	-77.0	-	94	-0.010	-0.315	-0.117	-0.077	-0.158	-0.151	-0.110	-0.012	-0.034	-0.022	-0.012	-0.048	-0.573	-0.067	-0.033	-0.193	-0.935	-0.344	-0.691	-5.088	-0.149	-3.110	-16.000	-0.005	-0.025
07/09/19	-76.0	-0.8	-3.2	-1.7	-76.0	-75.0	-76.0	-72.0	-	133	-0.007	-0.294	-0.110	-0.078	-0.160	-0.160	-0.079	-0.017	-0.045	-0.030	-0.018	-0.052	-0.755	-0.065	-0.044	-0.219	-0.812	-0.300	-0.704	-5.123	-0.140	-2.940	-16.000	-0.005	-0.023
10/01/19	-78.0	-0.8	-3.2	-1.8	-77.0	-77.0	-77.0	-72.0	-	95	-0.011	-0.142	-0.116	-0.073	-0.152	-0.151	-0.082	-0.017	-0.044	-0.030	-0.023	-0.018	-0.747	-0.065	-0.042	-0.210	-0.854	-0.301	-0.751	-5.089	-0.141	-3.074	-15.000	-0.005	-0.026
2019 Average	-75.0	-0.9	-22.1	-1.7	-73.8	-73.0	-73.5	-70.8		**96.2**	-0.008	-0.251	-0.109	-0.075	-0.155	-0.154	-0.070	-0.015	-0.040	-0.051	-0.015	-0.032	-0.668	-0.063	-0.038	-0.198	-0.854	-0.306	-0.726	-12.325	-0.142	-3.001	-16.250	-0.004	-0.024
01/20/20	-78.0	-1.0	-2.0	-1.9	-78.0	-78.0	-79.0	-76.0	-	67	-0.003	-0.246	-0.109	-0.059	-0.118	-0.105	-0.071	-0.009	-0.025	-0.019	-0.007	-0.027	-0.645	-0.069	-0.027	-0.186	-0.825	-0.285	-0.715	-5.100	-0.137	-2.860	-16.000	-0.004	-0.017
4/6/2020[10]	-	-	-	-	-	-	-	-	-	94[11]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/06/20	-78.0	-0.7	-3.8	-1.9	-78.0	-78.0	-78.0	-76.0	-	102[12]	-0.030	-0.330	-0.127	-0.057	-0.109	-0.108	-0.065	-0.020	-0.044	-0.032	-0.023	-0.028	-0.754	-0.065	-0.043	-0.213	-0.818	-0.290	-0.879	-36.000	-0.137	-3.090	-20.000	-0.005	-0.024
10/06/20	-77.0	-0.7	-4.1	-2.1	-77.0	-77.0	-76.0	-77.0	-	80[12]	-0.011	-0.263	-0.112	-0.060	-0.112	-0.111	-0.064	-0.017	-0.037	-0.025	-0.014	-0.008	-0.746	-0.070	-0.040	-0.218	-0.787	-0.217	-0.534	-26.000	-0.124	-2.197	-12.000	-0.007	-0.029
2020 Average	-77.7	-0.8	-3.3	-2.0	-77.7	-77.7	-77.7	-76.3		**85.8**	-0.015	-0.280	-0.116	-0.059	-0.113	-0.108	-0.067	-0.015	-0.035	-0.025	-0.015	-0.021	-0.715	-0.068	-0.037	-0.206	-0.810	-0.264	-0.709	-22.367	-0.133	-2.716	-16.000	-0.005	-0.023
01/07/21	-77.0	-1.0	-4.0	-2.1	-77.0	-77.0	-77.0	-74.0	-11.0	103[12]	-0.004	-0.326	-0.099	-0.056	-0.107	-0.105	-0.047	-0.011	-0.027	-0.020	-0.008	-0.006	-0.596	-0.065	-0.038	-0.180	-0.507	-0.195	-0.495	-11.000	-0.141	-1.870	-12.000	-0.083	-0.116
04/06/21	-78.0	-1.0	-4.1	-2.2	-78.0	-78.0	-78.0	-78.0	-9.0	114[12]	-0.031	-0.334	-0.119	-0.052	-0.100	-0.099	-0.065	-0.018	-0.035	-0.030	-0.017	-0.009	-0.636	-0.063	-0.040	-0.188	-0.457	-0.186	-0.775	-13.000	-0.143	-1.483	-9.000	-0.080	-0.116
07/06/21	-76.0	-1.0	-4.2	-2.3	-77.0	-76.0	-76.0	-75.0	-9.0	126[12]	-0.015	-0.307	-0.134	-0.065	-0.117	-0.107	-0.073	-0.012	-0.033	-0.023	-0.015	-0.011	-0.763	-0.094	-0.041	-0.274	-0.521	-0.212	-0.706	-17.000	-0.124	-2.402	-18.000	-0.091	-0.131
10/04/21	-77.0	-1.0	-3.8	-2.2	-76.0	-76.0	-76.0	-75.0	-9.0	120[12]	-0.016	-0.322	-0.109	-0.060	-0.111	-0.124	-0.065	-0.016	-0.035	-0.030	-0.019	-0.005	-0.744	-0.059	-0.038	-0.227	-0.714	-0.262	-0.754	-16.000	-0.155	-2.265	-18.000	-0.091	-0.142
2021 Average	-77.0	-1.0	-4.0	-2.2	-77.0	-76.8	-76.8	-75.5	-9.5	**108.5**	-0.017	-0.322	-0.115	-0.058	-0.109	-0.109	-0.063	-0.014	-0.033	-0.026	-0.015	-0.008	-0.685	-0.070	-0.039	-0.217	-0.550	-0.214	-0.683	-14.250	-0.141	-2.005	-14.250	-0.086	-0.126
01/07/22	-79.0	-1.0	-4.9	-2.9	-78.0	-78.0	-78.0	-78.0	-10.0	97[12]	-0.011	-0.311	-0.094	-0.047	-0.095	-0.087	-0.090	-0.010	-0.019	-0.016	-0.032	-0.020	-0.662	-0.059	-0.032	-0.198	-0.449	-0.166	-0.491	-16.000	-0.148	-1.612	-8.100	-0.085	-0.126
04/04/22	-80.0	-1.0	-4.4	-3.0	-78.0	-78.0	-80.0	-78.0	-10.0	102[12]	-0.005	-0.315	-0.101	-0.052	-0.089	-0.097	-0.105	-0.011	-0.026	-0.020	-0.011	-0.008	-0.667	-0.069	-0.048	-0.202	-0.424	-0.191	-0.445	-16.000	-0.146	-1.421	-8.500	-0.075	-0.112
07/11/22	-76.0	-1.0	-5.0	-3.0	-75.0	-76.0	-75.0	-74.0	-10.0	137[12]	-0.019	-0.322	-0.324	-0.071	-0.118	-0.128	-0.023	-0.018	-0.041	-0.023	-0.017	-0.008	-0.707	-0.060	-0.018	-0.220	-0.665	-0.629	-0.555	-5.110	-0.126	-2.236	-14.500	-0.080	-0.120
10/28/22	-80.0	-1.0	-5.0	-3.5	-80.0	-79.0	-78.0	-78.0	-10.0	111[12]	-0.007	-0.290	-0.095	-0.048	-0.900	-0.085	-0.029	-0.014	-0.026	-0.024	-0.013	-0.004	-0.706	-0.058	-0.031	-0.206	-0.516	-0.906	-0.701	-5.100	-0.135	-1.900	-16.000	-0.076	-0.123
2022 Average	-78.8	-1.0	-4.8	-3.1	-77.8	-77.8	-77.8	-77.0	-10.0	**111.8**	-0.011	-0.310	-0.154	-0.055	-0.301	-0.099	-0.062	-0.013	-0.028	-0.021	-0.018	-0.010	-0.686	-0.062	-0.032	-0.207	-0.514	-0.473	-0.548	-10.553	-0.139	-1.792	-11.775	-0.079	-0.120
1/4/2023[13]	-79.0	-1.0	-4.9	-2.9	-78.0	-78.0	-78.0	-78.0	-10.0	107[12]	-0.009	-0.300	-0.094	-0.048	-0.090	-0.086	-0.030	-0.012	-0.022	-0.060	-0.012	-0.022	-0.608	-	-0.031	-0.202	-0.483	-0.536	-0.701	-8.200	-0.142	-1.440	-10.600	-0.083	-0.122
04/05/23	-80.0	-1.0	-5.0	-3.5	-80.0	-79.0	-79.0	-78.0	-10.0	84[12]	-0.015	-0.300	-0.090	-0.050	-0.085	-0.090	-0.030	-0.013	-0.021	-0.060	-0.015	-0.030	-0.610	-0.060	-0.040	-0.200	-0.490	-0.550	-0.600	-8.200	-0.150	-1.500	-10.600	-0.083	-0.120
07/05/23	-77.0	-1.0	-6.0	-1.0	-75.0	-76.0	-76.0	-75.0	-10.0	127[12]	-0.005	-0.630	-0.190	-0.011	-0.244	-0.224	-0.016	-0.012	-0.033	-0.015	-0.010	-0.049	-0.605	-0.057	-0.038	-0.220	-0.663	-0.541	-0.140	-5.100	-0.033	-0.617	-12.000	-0.088	-0.030
10/03/23	-78.0	-1.0	-5.0	-1.0	-78.0	-78.0	-76.0	-76.0	-10.0	125[12]	-0.044	-0.740	-0.256	-0.007	-0.234	-0.196	-0.233	-0.031	-0.087	-0.058	-0.042	-0.018	-0.642	-0.176	-0.114	-0.510	-0.589	-0.601	-0.649	-5.100	-0.358	-0.536	-12.000	-0.088	-0.038
2023 Average	-78.5	-1.0	-5.2	-2.1	-77.8	-77.8	-77.3	-76.8	-10.0	**111**	-0.018	-0.493	-0.158	-0.029	-0.163	-0.149	-0.077	-0.017	-0.041	-0.048	-0.020	-0.030	-0.616	-0.098	-0.056	-0.283	-0.556	-0.557	-0.523	-6.650	-0.171	-1.023	-11.300	-0.086	-0.077
01/02/24	-80.0	-1.0	-2.4	-2.0	-79.0	-79.0	-79.0	-78.0	-10.0	104[12]	-0.024	-0.688	-0.048	-0.084	-0.178	-0.137	-0.182	-0.006	-0.032	-0.018	-0.013	-0.045	-0.313	-0.159	-0.052	-0.408	-0.186	-0.486	-1.400	-10.000	-0.366	-3.943	-11.000	-0.188	-0.300
04/24/24	-78.0	-1.0	-3.0	-2.0	-78.0	-78.0	-78.0	-78.0	-10.0	118[12]	-0.030	-0.682	-0.010	-0.122	-0.210	-0.072	-0.181	-0.005	-0.086	-0.071	-0.030	-0.010	-0.142	-0.139	-0.074	-0.440	-0.113	-0.460	-1.430	-10.000	-0.350	-3.315	-11.000	-0.186	-0.270
07/01/24	-79.0	-1.0	-3.0	-4.0	-78.0	-78.0	-78.0	-72.0	-10.0	123[12]	-0.036	-0.701	-0.027	-0.119	-0.206	-0.170	-0.217	-0.005	-0.066	-0.061	-0.042	-0.012	-0.157	-0.164	-0.094	-0.482	-0.152	-0.585	-1.524	-10.000	-0.352	-5.590	-11.000	-0.197	-0.318
10/08/24	-78.0	-1.0	-3.6	-6.0	-77.0	-77.0	-77.0	-76.0	-10.0	126[12]	-0.008	-0.186	-0.101	-0.043	-0.068	-0.082	-0.086	-0.017	-0.036	-0.026	-0.014	-0.004	-0.575	-0.044	-0.039	-0.178	-0.073	-0.270	-0.563	-10.000	-0.136	-2.553	-10.000	-0.088	-0.135
2024 Average	-78.8	-1.0	-3.0	-3.5	-78.0	-78.0	-78.0	-76.0	-10.0	**118**	-0.025	-0.564	-0.047	-0.092	-0.166	-0.115	-0.167	-0.008	-0.055	-0.044	-0.025	-0.018	-0.297	-0.127	-0.065	-0.377	-0.131	-0.450	-1.229	-10.000	-0.301	-3.850	-10.750	-0.165	-0.256
01/06/25	-79.0	-1.0	-4.2	-6.0	-66.0	-77.0	-78.0	-76.0	-10.0	131[14]	-0.008	-0.235	-0.103	-0.043	-0.107	-0.073	-0.151	-0.017	-0.057	-0.027	-0.011	-0.005	-0.357	-0.036	-0.018	-0.055	-0.356	-0.171	-0.492	-2.074	-0.113	-1.329	-10.000	-0.070	-0.109
04/02/25	-80.0	-1.0	2.4	-6.0	-61.0	-78.0	-80.0	-78.0	-8.0	145[12]	-0.007	-0.167	-0.102	-0.065	-0.101	-0.111	-0.135	-0.014	-0.045	-0.028	-0.020	-0.100	-0.459	-0.048	-0.024	-0.066	-0.402	-0.107	-0.458	-10.000	-0.177	-1.256	-10.000	-0.057	-0.092
07/02/25	-78.0	-2.0	-2.8	-8.0	-60.0	-66.0	-77.0	-78.0	-8.0	122[12]	-0.005	-0.268	-0.098	-0.060	-0.109	-0.119	-0.121	-0.015	-0.052	-0.032	-0.024	-0.014	-0.465	-0.056	-0.032	-0.154	-0.203	-0.088	-0.219	-10.000	-0.130	-0.715	-4.715	-0.060	-0.101
10/06/25	-80.0	-2.0	-2.8	-9.0	-63.0	-79.0	-79.0	-78.0	-8.0	117[12]	-0.009	-0.266	-0.101	-0.066	-0.104	-0.113	-0.094	-0.014	-0.045	-0.030	-0.022	-0.104	-0.450	-0.050	-0.030	-0.151	-0.162	-0.079	-0.198	-10.000	-0.123	-0.546	-2.933	-0.055	-0.095
2025 Average	-79.3	-1.5	-1.9	-7.3	-62.5	-75.0	-78.5	-77.5	-8.5	**129**	-0.007	-0.234	-0.101	-0.059	-0.105	-0.104	-0.125	-0.015	-0.050	-0.029	-0.019	-0.056	-0.433	-0.048	-0.026	-0.107	-0.281	-0.111	-0.342	-8.019	-0.136	-0.962	-6.912	-0.061	-0.099
Average[4]:	**-58.3**	**-5.7**	**-6.4**	**-1.9**	**-66.3**	**-70.9**	**-70.9**	**-70.1**	**-9.6**	**89.1**	**-0.011**	**-0.332**	**-0.104**	**-0.231**	**-0.569**	**-0.494**	**-0.055**	**-0.021**	**-0.041**	**-0.030**	**-0.012**	**-0.037**	**-0.601**	**-0.068**	**-0.041**	**-0.218**	**-0.448**	**-0.216**	**-0.499**	**-8.935**	**-0.138**	**-2.487**	**-11.891**	**-0.045**	**-0.078**

Notes:
1. Cumulative influent flow rates shown after and including 12/30/10 obtained using manual anemometer. Prior to 12/30/10, combined influent flow rate value obtained from flow transmitter FT-201.
2. New blower installed as part of system upgrades in operation.
3. Vacuum at SDS-2 and SDS-4 wellheads from 5/12/11 through 8/11/11 were recorded as zero due to the scaled range of the field mounted vacuum gauges. Subsequent vacuum readings at those SDS locations have been recorded with a micromanometer.
4. For instances in which a differential pressure range has been provided for a VMP on a specific date, the middle of the range has been used for average calculations.
These values have not been included in the calculation of the average sub-slab vacuums.
5. On 12/21/2015 the Blower was switched to bypass the VFD, so it is drawing more vacuum than normal. The field pressure readings for SDS-1, -5, -6, and -7 were < -80, but for calculation purposes were stated as -80. When a replacement VFD is installed in Q1 2016 these numbers are expected to return to normal ranges, so no corrective action is being taken at this time to address the higher pressures.
6. Blower and VFD replaced on 3/1/16. Vacuum readings taken on 4/6/2016 and onward reflect.
7. On February 8, 2018 SDS-3 Pressure was measured at -2.0 In. W.C.
8. On October 9, 2018, the differential pressure at VMP-1C could not be measured due to the presence of water on the floor.
9. On February 4, 2019 SDS-3 Pressure was measured at -2.0 In. W.C.
10. Due to COVID-19, no entry to facility was performed during the April 2020 quarterly event; no readings were collected from the SDSs.
11. As per Note 10, a combined influent flow rate was not calculated from the individual SDSs. The combined influent flow rate value was obtained from flow transmitter FT-301.
12. Combined influent flow rate was not calculated from the individual SDSs. The combined influent flow rate value was obtained from flow transmitter FT-301.
13. On January 4, 2023, the differential pressure at VMP-5A could not be measured due to the presence of palletts covering the monitoring point.
14. The influent flow rate is from a March 3, 2025 reading rather than January 6, 2025 because the the January reading was taken during a time when the flow rate was fluctuating.

Definitions:
ft - feet
In. W.C. - Inches of Water Column
scfm - standard cubic feet per minute
VMP - Vacuum Monitoring Point

Table A-2. Sub-Slab Depressurization System Operation Summary
Former Lockheed Martin French Road Facility, Utica, New York

Date	Date/Time			Process	Description	Suspected Cause of Alarm	Corrective Action
	Shutdown	Online	Off (days)				
November 2007	Pilot test conducted						
7/19/2008	System brought online following ICM upgrades and startup/shakedown period						
8/11/2008	8/11/08 6:18	8/11/08 14:50	0.4	05	VFD run fault	Power outage/Voltage spike	Restart system
10/11/2008	10/11/08 6:42	10/13/08 9:16	2.1	05	VFD run fault	Power outage/Voltage spike	Restart system
2008 % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		2.5	162.5	99%			
1/10/2009	1/10/09 23:09	1/13/09 18:48	2.8	06	AWS-HH	Build up of condensate	Thaw out frozen tank and install heat trace/insulating jacket on AWS
2/2/2009	2/1/09 0:00	2/2/09 15:30	1.6	NA	Power outage	Power outage/ Faulty battery backup	Restart system
3/9/2009	3/8/09 11:03	3/9/09 11:03	1.0	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
7/7/2009	7/7/09 7:21	7/8/09 11:00	1.2	05	VFD run fault	ConMed temporarily shuts down power	Restart system
7/17/2009	7/17/09 10:57	7/17/09 13:00	0.1	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
7/31/2009	7/31/09 10:00	8/3/09 14:30	3.2	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
11/14/2009	11/14/09 18:55	11/16/09 8:00	1.5	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
2009 % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		11.4	352.6	97%			
3/22/2010	3/22/10 11:16	3/22/10 18:26	0.3	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
6/8/2010	6/8/10 8:22	6/8/10 15:21	0.3	05	VFD run fault	Power outage/Voltage spike	Inspect and restart system
11/11/2010[1]	11/11/10 10:00	12/31/10 23:59	9.0	05	LOTO	System was shutdown periodically from 11/11 through 12/31 in order to implement remedial enhancements	Restart system daily
2010 % Run Time Summary[1]		**Days Offline**	**Days Online**	**% Run Time**			
		9.6	355.4	97%			
1/27/2011[1]	1/27/11 19:53	1/28/11 9:13	0.6	13	HX fault	Local HOA switch intentionally turned into off position. PLC still attempting to turn on HX.	Temperature setpoints controlling HX on/off operation temporarily adjusted so that PLC will not attempt to turn on HX. Restart system.
2/22/2011	2/22/11 9:52	2/22/11 16:15	0.3	NA	Manual shutdown	System temporarily shutdown to allow for supplemental lighting installation.	Restart system.
2/28/2011	2/28/11 12:08	2/28/11 21:12	0.4	NA	Manual shutdown	System temporarily shutdown to allow for VPGAC manifold repairs.	Restart system.
3/2/2011	3/2/11 12:40	3/2/11 18:01	0.2	NA	Manual shutdown	System temporarily shutdown to allow for electrical/programming maintenance.	Restart system.
3/30/2011	3/30/11 12:52	3/30/11 20:28	0.3	NA	Manual shutdown	System temporarily shutdown to allow for electrical labeling.	Restart system.
3/31/2011	3/31/11 8:05	3/31/11 13:33	0.2	NA	Manual shutdown	System temporarily shutdown to allow for electrical labeling.	Restart system.
4/11/2011	4/11/11 17:51	4/12/11 9:08	0.6	10	High TT-201	Post-blower temperature exceeding initial high temperature alarm setpoint.	Adjust high temperature setpoint from 180 °F to 200 °F.
4/24/2011	4/24/11 22:10	4/25/11 17:31	0.8	27	Low Flow	Potential drifting associated with transmitter calibration.	Continue to monitor and re-calibrate during next O&M visit if needed.
5/29/2011	5/29/11 15:13	6/1/11 20:34	3.2	10	High TT-201	Post-blower temperature exceeding initial high temperature alarm setpoint.	Adjust high temperature setpoint from 180 °F to 210 °F.
6/10/2011	6/10/11 23:31	6/13/11 16:18	2.7	NA	Power outage	Power outage/Voltage spike	Inspect and restart system. Upon inspection, replacement of a blown fuse conducted.
7/9/2011	7/9/11 7:01	7/11/11 11:08	2.2	28	Power outage	Power outage/Voltage spike	Restart system.
9/7/2011	9/7/11 1:14	9/7/11 10:14	0.4	27	Low Flow	Potential drifting associated with transmitter calibration.	Inspect flow transmitter on 9/8/11.
9/7/2011	9/7/11 16:56	9/8/11 10:31	0.7	27	Low Flow	Potential drifting associated with transmitter calibration.	Inspect flow transmitter on 9/8/11.
9/14/2011	9/14/11 7:44	9/14/11 14:18	0.3	NA	Manual shutdown	System temporarily shutdown to allow for heat exchanger bypass piping modification.	Operate ICM system while main system offline.
9/16/2011	9/16/11 7:07	9/16/11 12:06	0.2	NA	Manual shutdown	System temporarily shutdown to allow for heat exchanger bypass piping modification.	Operate ICM system while main system offline.
12/14/2011	12/14/11 4:23	12/14/11 12:24	0.3	27	Low Flow	Potential drifting associated with transmitter calibration.	Monitor system and flowrate remotely.
12/19/2011	12/19/11 12:56	12/19/11 16:30	0.1	27	Low Flow	Potential drifting associated with transmitter calibration.	Monitor system and flowrate remotely.
12/19/2011	12/19/11 17:58	12/19/11 22:00	0.2	27	Low Flow	Potential drifting associated with transmitter calibration.	Monitor system and flowrate remotely. Modify alarm time delay and low set point.
12/23/2011	12/23/11 6:11	12/23/11 10:10	0.2	27	Low Flow	Potential drifting associated with transmitter calibration.	Monitor system and flowrate remotely. Modify alarm time delay and low set point.
12/24/2011	12/24/11 0:34	12/24/11 8:20	0.3	27	Low Flow	Potential drifting associated with transmitter calibration.	Reduce low flow alarm set point.
2011 % Run Time Summary[1][2]		**Days Offline**	**Days Online**	**% Run Time**			
		14.2	350.8	96%			
1/14/2012	1/14/12 0:52	1/14/12 8:37	0.3	27	Low Flow	Potential drifting associated with cold weather pattern.	Restart system
1/19/2012	1/19/12 1:05	1/19/12 7:47	0.3	27	Low Flow	Potential drifting associated with cold weather pattern.	Restart system
2/13/2012	2/13/12 0:38	2/13/12 10:30	0.4	27	Low Flow	Suspect flow transmitter may have had some moisture on it, resulting in a false low air flow rate.	Restart system
2/15/2012	2/15/12 18:48	2/15/12 19:35	0.0	16	High Vacuum	Suspect that the flow transmitters 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the vacuum readings were steady at around -71 in.W.C. prior to alarm. System was restarted.
3/1/2012	3/1/12 5:31	3/1/12 11:42	0.3	27	Low Flow	Potential drifting associated with cold weather pattern.	Restart system. Performed a field calibration to fix noted drifting.
3/7/2012	3/7/12 10:30	3/7/12 17:49	0.3	NA	System temporarily taken offline to complete the arc flash study field reconnaissance	NA	NA
4/20/2012	4/20/12 15:17	4/20/12 15:30	0.0	NA	System temporarily taken offline to complete the arc flash study field reconnaissance	NA	NA
4/23/2012	4/23/12 12:45	4/23/12 16:46	0.2	NA	Chris Davern onsite to modify the SSDS cfg file and test UPS battery.	The SSDS cfg file was modified so that the High for TT-201 is the fatal alarm as opposed to what it was previously, the High-High. UPS battery tested successfully and lasted approximately 60 minutes.	
6/21/2012	6/21/12 19:15	6/22/12 11:00	0.7	10	High TT-201	Post-blower/Pre-HX temperature exceeded high temperature alarm setpoint (225 F). Ambient temperatures exceeded 90's F.	Restart the system following inspection and passing of seasonal high ambient temperatures.
7/4/2012	7/4/12 17:58	7/5/12 11:00	0.7	10	High TT-201	Post-blower/Pre-HX temperature exceeded high temperature alarm setpoint (225 F). Ambient temperatures exceeded 90's F.	Restart system following inspection.
7/14/2012	7/14/12 17:41	7/16/12 12:26	1.8	10	High TT-201	Post-blower/Pre-HX temperature exceeded high temperature alarm setpoint (225 F). Ambient temperatures exceeded 90's F.	Restart system. Confirmed accuracy of post-blower temperature transmitter TT-201 and post-blower temperature gauge TI-201. Conducted several tests consisting of varying blower speed and adjusting fresh-air dilution valve to observe impact on temperature rise through blower.
8/4/2012	8/4/12 16:17	8/6/12 9:19	1.7	10	High TT-201	Vapor stream post-blower exceeded the high set point if 225 F due to increased summer ambient temperatures.	Restart system remotely at 9:19 on 8/6/12. Continue to monitor post-blower temperatures during forecasted higher ambient temperature conditions.
9/13/2012	9/13/12 19:02	9/14/12 9:30	0.6	16	High Vacuum, VT-201	Suspect that the vacuum transmitter's 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the vacuum readings were steady at around -73 in.W.C. prior to alarm. System was restarted. The high vacuum alarm set point was changed from -80 to -85 in.W.C.
2012 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		7.2	358.8	98%			
4/21/2013	4/21/13 16:02	4/22/13 8:45	0.7	16	High Vacuum, VT-201	Suspect that the vacuum transmitter's 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the vacuum readings were steady at around -73 in.W.C. prior to alarm. System was restarted. The high vacuum alarm set point was changed from -80 to -85 in.W.C.
9/4/2013	9/4/13 7:05	9/5/13 8:46	1.1	24	Low Pressure, PT-201	Suspect that the pressure transmitter's 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the pressure readings were steady at around 1.5-1.8 in.W.C. prior to alarm. System was restarted and monitored for operation.
10/27/2013	10/27/13 22:21	10/28/13 8:56	0.4	24	Low Pressure, PT-201	Suspect that the pressure transmitter's 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the pressure readings were steady at around 3.8-4.1 in.W.C. prior to alarm. The alarm time delay was increased from 15 sec to 120 sec. System was restarted and monitored for operation.
11/6/2013	11/6/13 8:21	11/7/13 5:30	0.9	16	High Vacuum, VT-201	Suspect that the flow transmitters 4-20mA signal may have temporarily drifted.	The alarm time delay was increased from 2 seconds to 2 minutes. System was restarted and monitored for operation.
12/20/2013	12/19/13 4:15	12/19/13 18:52	0.6	21	VFD Fault	Suspect Temporary Power Failure	Based on correspondence with the facility operator (ConMed) they had some electrical issues with their parking lot lighting. As a result the SSDS building may have temporarily lost power. System was restarted and monitored for operation.
2013 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		3.7	361.3	99%			
1/9/2014	1/9/14 15:11	1/9/14 21:00	0.2	13	Heat Exchanger Motor Fault	As a result of the recent snow storm which occurred during this period snow/ice may have built up on the fan blades and thus frozen and thereby causing enough resistance to the fan motor to initiate the failed start condition detected by the PLC input.	Inspect HX physical HOA and locally mounted disconnect switches. The HOA was confirmed to be in the "Auto" position and the local disconnect was also confirmed to be in the "On" position. Verify that the overload relay did not trip. System was restarted and monitored for operation.
1/14/2014	1/14/14 6:57	1/14/14 7:49	0.0	24	Low Pressure, PT-201	Suspect that the pressure transmitter's 4-20mA signal may have temporarily drifted.	Log into the system remotely and downloaded the datalogger files to confirm possible causes of alarm. Datalogger file indicated that the pressure readings were steady at around 1.5-1.8 in.W.C. prior to alarm. The alarm time dealy was increased from 2 to 5 minutes. System was restarted and monitored for operation.
2/3/2014	2/3/14 21:51	2/4/14 10:05	0.5	23	High Pressure, PT-201	Condensate buildup in the carbon bed manifold piping lead to airflow constriction.	Site visit was performed to drain carbon manifold piping. System was restarted and monitored for operation.
2/4/2014	2/4/14 10:06	2/4/14 10:56	0.0	23	High Pressure, PT-201	Condensate in carbon manifold piping had not been drained sufficiently to allow airflow to continue at normal operating conditions.	Carbon manifold piping was drained. System was restarted and monitored for operation.
2/7/2014	2/7/14 12:07	2/7/14 12:58	0.0	21	VFD Fault	System was shut down due to critical system testing. Test of VFD fault alarm caused the system to shut down.	NA
3/1/2014	3/1/14 21:24	3/1/14 23:15	0.1	21	VFD Fault	System was shut down due to apparent electrical surge/outing at the ConMed facility.	System was restarted in Auto remotely.
3/4/2014	3/4/14 14:00	3/4/14 14:30	0.0	NA	OM&M Activities	OM&M Activities	NA
3/6/2014	3/6/14 14:40	3/6/14 19:20	0.2	23	High Pressure, PT-201	Condensate in carbon manifold piping had not been drained sufficiently to allow airflow to continue at normal operating conditions.	Carbon manifold piping was drained. System was restarted and monitored for operation.
1st Quarter (2014) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		1.0	89.0	99%			
4/27/2014	4/27/14 0:04	4/27/14 10:00	0.4	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
5/1/2014	5/1/14 20:57	5/2/14 7:49	0.5	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
6/16/2014	6/16/14 8:22	6/16/14 8:40	0.0	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
6/21/2014	6/21/14 6:45	6/21/14 10:30	0.2	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
6/28/2014	6/28/14 7:30	6/29/14 13:00	1.2	-	ConMed Shutdown	ConMed Scheduled Shutdown	System was off during ConMed Shutdown and restarted during a site visit on 6/29/2014.
2nd Quarter (2014) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		2.3	88.7	97%			
7/1/2014	7/1/14 18:02	7/1/14 18:50	0.0	ACFAIL	No description of ACFAIL	Possibly caused by loss of AC power	System was restarted in Auto remotely.
7/1/2014	7/1/14 20:06	7/1/14 21:40	0.1	ACFAIL	No description of ACFAIL	Possibly caused by loss of AC power	System was restarted in Auto remotely.
8/18/2014	8/18/14 3:55	8/18/14 7:33	0.2	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
9/3/2014	9/3/14 1:19	9/3/14 7:17	0.2	21	VFD Fault	VFD electrical connection was investigated and secured.	System was restarted in Auto from on site.
3rd Quarter (2014) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		0.5	91.5	99%			
11/4/2014	11/4/14 5:49	11/4/14 7:50	0.1	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated. Plan to increase fault time delay.	System was restarted in Auto remotely.
4th Quarter (2014) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		0.1	91.9	99.9%			
2014 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		3.9	361.1	99%			

Table A-2. Sub-Slab Depressurization System Operation Summary
Former Lockheed Martin French Road Facility, Utica, New York

Date	Date/Time			Process	Description	Suspected Cause of Alarm	Corrective Action
	Shutdown	Online	Off (days)				
1st Quarter (2015) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		0.0	90.0	100%			
4/29/2015	4/29/15 5:36	4/29/15 8:00	0.1	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
2nd Quarter (2015) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		0.1	90.9	100%			
8/5/2015	8/5/15 0:37	8/5/15 8:00	0.3	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
8/7/2015	8/7/15 18:56	8/7/15 23:00	0.2	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
9/12/2015	9/12/15 17:21	9/13/15 10:00	0.7	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
9/20/2015	9/20/15 20:48	9/20/15 21:10	0.0	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely.
3rd Quarter (2015) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		1.2	90.8	98.7%			
10/22/2015	10/22/15 20:10	10/26/15 14:30	3.8	21	VFD Fault	Cause of shutdown were voltage and current overloads. The cause of these overloads is currently being investigated.	System would not restart in Auto remotely, so Stantec visited the site and found that the blower breaker had been tripped. Upon starting the blower manually, audible evidence of a possible internal mechanical issue was heard, so the system was left off until 10/26 when Stantec returned with a representative of Oneida Electric. All wiring and connections related to the blower were checked for improper grounding, continuity, voltage, etc. and no unusual conditions were noted. The system was restarted on site, and operation appeared normal that afternoon and the morning of 10/27 during remote checks.
11/5/2015	11/5/15 9:21	11/5/15 9:40	0.0	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
11/19/2015	11/19/15 21:41	11/20/15 8:40	0.5	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
11/24/2015	11/24/15 8:41	11/24/15 8:45	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto on site. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
11/29/2015	11/29/15 9:26	11/29/15 12:30	0.1	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
12/5/2015	12/5/15 18:57	12/6/15 4:00	0.4	21	VFD Fault	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
12/8/2015	12/8/15 10:49	12/8/15 11:00	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto on site. Stantec continued to research options for further mechanical inspection, voltage/current monitoring, and/or possible blower/motor/VFD service or replacement.
12/9/2015	12/9/15 10:35	12/9/15 10:40	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec was asked to prepare a recommendation about how to respond to recent Process 20 and 21 alarms. Blower, motor, and VFD replacement were recommended.
12/16/2015	12/16/15 8:15	12/16/15 8:20	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec was in the process of making a change order for the replacement of the current blower, motor, and VFD in response to recent Process 20 and 21 alarms.
12/16/2015	12/16/15 10:27	12/16/15 11:00	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec was in the process of making a change order for the replacement of the current blower, motor, and VFD in response to recent Process 20 and 21 alarms.
12/18/2015	12/18/15 21:55	12/18/15 23:00	0.0	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System was restarted in Auto remotely. Stantec had submitted a change order for the replacement of the current blower, motor, and VFD in response to recent Process 20 and 21 alarms.
12/20/2015	12/20/15 18:46	12/21/15 14:00	0.8	20	Thermal Switch Overload	Cause of shutdown currently unknown and currently being investigated.	System would not restart in Auto remotely, so Stantec visited the site and found that the SSDS breaker had been tripped. Upon attempting to restart the system, it shut down with a Process 21 fatal alarm. Stantec then restarted the system in VFD bypass mode. Due to the increased vaccum resulting from operating without the VFD, Stantec adjusted bleed valve BV-202 to lower the Vaccum (VT-201) and Flow (FT-301) input values to approximately 88 IWC and 228 CFM, respectively. The Analog inputs were compared to OMM Table 3 and found to be within operating ranges, with the exception of VT-201 and FT-301. The alarm setpoints for these inputs were temporarily adjusted to 100 IWC and 240 CFM to avoid unncecesary alarms.The system was restarted on site, and operation appeared normal through the remainder of 2015.
4th Quarter (2015) % Run Time Summary		**Days Offline**	**Days Online**	**% Run Time**			
		5.6	86.4	94%			
2015 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		6.9	358.1	98.1%			
3/1/2016	3/1/16 8:30	3/2/16 10:00	1.1	N/A	System temporarily shut down to replace the blower and VFD.	NA	NA
			0.0				
			0.0				
1st Quarter (2016) % Run Time Summary (through March 31)		**Days Offline**	**Days Online**	**% Run Time**			
		1.1	89.9	98.8%			
2nd Quarter (2016) % Run Time Summary (through June 30)		**Days Offline**	**Days Online**	**% Run Time**			
		0.0	91.0	100.0%			
9/24/2016	9/24/16 5:26	9/24/16 15:10	0.4	AC Fail	Power loss to system building	Area-wide power outage that impacted the ConMed facility	Stantec was not able to connect to the system remotely. A site visit was made and the system was restarted at 1510 hours.
9/27/2016	9/27/16 11:43	9/27/16 16:10	0.2	AC Fail	Power loss to system building	Area-wide power outage that impacted the ConMed facility	Stantec was not able to connect to the system remotely. A site visit was made and the system was restarted at 1610 hours.
3rd Quarter (2016) % Run Time Summary (through September 30)		**Days Offline**	**Days Online**	**% Run Time**			
		0.6	91.4	99.36%			
4th Quarter (2016) % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		0.0	92.0	100.0%			
2016 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		1.7	364.3	99.5%			
1st Quarter (2017) % Run Time Summary (through March 31)		**Days Offline**	**Days Online**	**% Run Time**			
		0.0	90.0	100.0%			
2nd Quarter (2017) % Run Time Summary (through June 30)		**Days Offline**	**Days Online**	**% Run Time**			
		0.0	91.0	100.0%			
7/1/2017	7/1/17 10:14	7/1/17 11:45	0.0	Process 21	VFD fault	VFD outside frequency range	restarted system
7/20/2017	7/20/17 18:08	7/21/17 10:10	0.8	Process 22	Pre-carbon heat exchanger exceeded temperature limit	Temperature rose above 115°F	Tested system, but heat exchanger was not functioning properly. Aztech found that the TT-301 Hi Analog Input was set at 300°F, reset to 100°F. System operating normal.
3rd Quarter (2017) % Run Time Summary (through September 30)		**Days Offline**	**Days Online**	**% Run Time**			
		0.8	91.2	99.2%			
10/9/2017	10/9/17	10/9/17	0.2	No Alarm	PLC was not energized	Backup battery failure	No morning SSDS status report was received. Could not remotely connect to SSDS PLC. Tetra Tech found system to be shut down upon arrival to site. Main power on, Auxiliary Power supply was off and PLC not energized. TT turned on Aux. Power supply, and that energized PLC. TT put SSDS through startup sequence, and it turned on the SSDS. Monitored system for 30 min prior to leaving site. TT monitored the system remotely and it operated normally throughout the day.
10/23/2017	10/23/17	10/23/17	0.3	No Alarm	PLC was not energized	Backup battery failure	No morning SSDS status report was received. TT observed the system shutdown and the Main Power on, but the Aux. Power supply was off and PLC was not energized. TT attempted to turn on the backup battery, but it would not energize. TT plugged the PLC directly into an outlet, and that energized the PLC. TT put the SSDS through startup sequence, and it turned on the SSDS. Monitored system for 30 min, and it operated normally. Backup battery was replaced on 10/25/17.
11/7/2017	11/7/17 13:50	11/7/17 19:20	0.2	Process 21 and Shutdown 80	The Variable Frequency Drive, VFD-200 had no power	Bad power cable or fuse	Tetra Tech's troubleshooting of the system revealed a circuit breaker in the off position. Tetra Tech engaged the circuit breaker to the on position, which powered up the VFD. Tetra Tech put the SSDS through a start-up sequence and the system operated normally.
12/28/2017	12/28/17 12:07	12/28/17 12:50	0.0	Process 23	High Post-Blower Pressure	Post blower pressure exceed 30 IWC	Remotely restarted system and monitored
12/28/2017	12/28/17 19:31	12/29/17 9:00	0.6	Process 23	High Post-Blower Pressure	Post blower pressure exceed 30 IWC	Remotely restarted the system, mobilized to the SSDS and drained the carbon vessels and air flow manifold
4th Quarter (2017) % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		1.3	90.7	98.6%			
2017 % Run Time Summary (through December 31)		**Days Offline**	**Days Online**	**% Run Time**			
		2.1	362.9	99.4%			

Table A-2. Sub-Slab Depressurization System Operation Summary
Former Lockheed Martin French Road Facility, Utica, New York

Date	Date/Time			Process	Description	Suspected Cause of Alarm	Corrective Action
	Shutdown	Online	Off (days)				
1st Quarter (2018) % Run Time Summary (through March 31)		**Days Offline** 0.0	**Days Online** 90.0	**% Run Time** 100.0%			
4/2/2018	4/2/18 17:50	4/2/18 18:33	0.03	Process 22	High Pre-Carbon Temperature	Incorrect alarm setting	TT-301 Hi Hi alarm was triggered after TT-301 exceeded 115º F. Tetra Tech remotely logged into ProView and observed that the TT-301 Hi was set at 300 ºF, above the normal setting of 100 ºF that should have initiated the operation of the heat exchanger and cooled the SSDS. TT-301 Hi setting was reset at 100 ºF and the system operated normally.
2nd Quarter (2018) % Run Time Summary (through June 30)		**Days Offline** 0.03	**Days Online** 90.97	**% Run Time** 99.97%			
3rd Quarter (2018) % Run Time Summary (through September 30)		**Days Offline** 0.0	**Days Online** 92.0	**% Run Time** 100.0%			
4th Quarter (2018) % Run Time Summary (through December 31)		**Days Offline** 0.0	**Days Online** 92.0	**% Run Time** 100.0%			
2018 % Run Time Summary (through December 31)		**Days Offline** 0.03	**Days Online** 364.97	**% Run Time** 99.99%			
2/20/2019	2/20/19 9:20	2/20/19 12:00	0.10	No Alarm	Unknown	Possible power or data line fault.	Tetra Tech was on site with the client and noticed the system was off, for an unknown reason (no alarms were present). System was restarted and operated normally.
1st Quarter (2019) % Run Time Summary (through March 31)		**Days Offline** 0.10	**Days Online** 89.90	**% Run Time** 99.88%			
5/25/2019	5/25/19 6:57	5/25/19 14:00	0.29	AC Fail	Temporary loss of power.	Temporary loss of power due to inclement weather.	Tetra Tech was not able to connect to the system remotely. A site visit was made and the system was restarted.
6/19/2019	6/19/19 10:15	6/19/19 17:30	0.31	AC Fail	Temporary loss of power.	Unknown.	Tetra Tech was not able to connect to the system remotely. A site visit was made and the system was restarted.
2nd Quarter (2019) % Run Time Summary (through June 30)		**Days Offline** 0.60	**Days Online** 90.40	**% Run Time** 99.34%			
8/8/2019	8/8/19 9:40	8/8/19 11:20	0.07	10	High Post-Blower Temperature	Temperature reached 225°F (High Temperature Setpoint)	A site visit was made and the cause of the high tempeature was investigated, no issues identified. The system was restarted.
8/17/2019	8/17/19 0:30	8/17/19 14:00	0.56	10	High Post-Blower Temperature	Temperature reached 225°F (High Temperature Setpoint)	A site visit was made and the cause of the high tempeature was investigated, no issues identified. The system was restarted.
3rd Quarter (2019) % Run Time Summary (through September 30)		**Days Offline** 0.63	**Days Online** 91.37	**% Run Time** 99.32%			
4th Quarter (2019) % Run Time Summary (through December 31)		**Days Offline** 0.00	**Days Online** 92.00	**% Run Time** 100.00%			
2019 % Run Time Summary (through December 31)		**Days Offline** 1.33	**Days Online** 363.67	**% Run Time** 99.63%			
1st Quarter (2020) % Run Time Summary (through March 31)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
2nd Quarter (2020) % Run Time Summary (through June 30)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
7/16/2020	7/16/20 23:53	7/17/20 7:30	0.32	10	High Post-Blower Temperature	Temperature reached 230°F (High Temperature Setpoint)	The system was restarted remotely and monitored.
7/20/2020	7/20/20 22:34	7/21/20 7:30	0.38	10	High Post-Blower Temperature	Temperature reached 230°F (High Temperature Setpoint)	The system was restarted remotely and monitored.
7/23/2020	7/23/20 12:03	7/23/20 16:05	0.16	10	High Post-Blower Temperature	Temperature reached 230°F (High Temperature Setpoint)	A site visit was made and the cause of the high tempeature was investigated, no issues identified. The system was restarted with a change in the blower frequency from 50 to 46 Hz.
3rd Quarter (2020) % Run Time Summary (through September 30)		**Days Offline** 0.86	**Days Online** 91.14	**% Run Time** 99.07%			
4th Quarter (2020) % Run Time Summary (through December 31)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
2020 % Run Time Summary (through December 31)		**Days Offline** 0.86	**Days Online** 364.14	**% Run Time** 99.76%			
1st Quarter (2021) % Run Time Summary (through March 31)		**Days Offline** 0.00	**Days Online** 90.00	**% Run Time** 100.00%			
4/9/2021	4/9/21 15:15	4/9/21 16:30	0.05	AC Fail	Temporary loss of power.	Temporary loss of power due to inclement weather.	A site visit was made and the system was restarted.
2nd Quarter (2021) % Run Time Summary (through June 30)		**Days Offline** 0.05	**Days Online** 90.95	**% Run Time** 99.95%			
3rd Quarter (2021) % Run Time Summary (through September 30)		**Days Offline** 0.00	**Days Online** 92.00	**% Run Time** 100.00%			
4th Quarter (2021) % Run Time Summary (through December 31)		**Days Offline** 0.05	**Days Online** 91.95	**% Run Time** 99.95%			
12/3/2021	12/3/21 18:00	12/3/21 19:00	0.05	13	Heat Exchanger Motor Fault	Faulty HOA switch.	A site visit was made, replaced switch and the system was restarted.
2021 % Run Time Summary (through December 31)		**Days Offline** 0.10	**Days Online** 364.90	**% Run Time** 99.97%			
1st Quarter (2022) % Run Time Summary (through March 31)		**Days Offline** 0.00	**Days Online** 90.00	**% Run Time** 100.00%			
2nd Quarter (2022) % Run Time Summary (through June 30)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
3rd Quarter (2022) % Run Time Summary (through September 30)		**Days Offline** 0.01	**Days Online** 91.99	**% Run Time** 99.99%			
7/11/2022	7/11/22 9:15	7/11/22 9:30	0.01	AC Fail	Temporary loss of power.	Temporary loss of power due to inclement weather.	Field technician was already on-site and the system was restarted.
4th Quarter (2022) % Run Time Summary (through December 31)		**Days Offline** 0.00	**Days Online** 92.00	**% Run Time** 100.00%			
2022 % Run Time Summary (through December 31)		**Days Offline** 0.01	**Days Online** 364.99	**% Run Time** 99.997%			
1st Quarter (2023) % Run Time Summary (through March 31)		**Days Offline** 1.41	**Days Online** 88.59	**% Run Time** 98.43%			
2/16/2023	2/16/23 0:38	2/16/23 13:30	0.54	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	A site visit was made, checked switch and the system was restarted.
3/10/2023	3/10/23 9:15	3/10/23 9:20	0.01	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	The system was restarted remotely and monitored.
3/21/2023	3/21/23 1:55	3/21/23 8:00	0.25	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	The system was restarted remotely and monitored.
3/28/2023	3/28/23 0:58	3/28/23 7:30	0.27	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	The system was restarted remotely and monitored.
3/29/2023	3/29/23 3:56	3/29/23 12:00	0.34	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	A site visit was made, checked switch and the system was restarted.
2nd Quarter (2023) % Run Time Summary (through June 30)		**Days Offline** 8.84	**Days Online** 82.16	**% Run Time** 90.29%			
4/3/2023	4/3/23 19:41	4/3/23 21:00	0.05	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	The system was restarted remotely and monitored.
4/7/2023	4/7/23 4:35	4/7/23 10:30	0.25	VFDRUN	Variable Frequency Drive Fault.	Faulty HOA switch.	The system was restarted remotely and monitored.
4/25/2023	4/25/23 12:03	4/25/23 12:27	0.02	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/3/2023	5/3/23 13:32	5/3/23 15:11	0.07	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	Technician on-site to perform monthly inspection and re-started the system.
5/4/2023	5/4/23 12:50	5/4/23 13:11	0.01	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/5/2023	5/5/23 11:43	5/5/23 13:52	0.09	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/6/2023	5/6/23 21:10	5/7/23 10:07	0.54	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/9/2023	5/9/23 2:06	5/9/23 8:45	0.28	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/11/2023	5/11/23 3:31	5/11/23 8:27	0.21	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/12/2023	5/12/23 10:23	5/12/23 12:27	0.09	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/13/2023	5/13/23 1:31	5/13/23 10:30	0.37	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/15/2023	5/15/23 13:12	5/15/23 14:18	0.05	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/16/2023	5/16/23 22:03	5/17/23 9:00	0.46	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/17/2023	5/17/23 19:06	5/17/23 20:30	0.06	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/18/2023	5/18/23 17:22	5/18/23 18:25	0.04	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/19/2023	5/19/23 16:50	5/19/23 19:00	0.09	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/21/2023	5/21/23 23:14	5/22/23 8:50	0.40	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/22/2023	5/22/23 19:03	5/22/23 20:00	0.04	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/24/2023	5/24/23 10:20	5/24/23 11:40	0.06	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/27/2023	5/27/23 19:13	5/28/23 9:10	0.58	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/29/2023	5/29/23 23:15	5/30/23 10:00	0.45	VFDRUN	Variable Frequency Drive Fault.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
5/31/2023	5/31/23 7:58	5/31/23 13:00	0.21	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	A site visit was performed and the system was re-started.
6/1/2023	6/1/23 8:15	6/1/23 8:45	0.02	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
6/2/2023	6/2/23 22:57	6/3/23 9:11	0.43	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/3/2023	6/3/23 14:15	6/3/23 15:04	0.03	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/4/2023	6/4/23 20:16	6/5/23 8:54	0.53	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/5/2023	6/5/23 17:36	6/5/23 18:02	0.02	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/6/2023	6/6/23 18:00	6/6/23 18:23	0.02	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/7/2023	6/7/23 14:22	6/7/23 16:52	0.10	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/10/2023	6/10/23 14:18	6/10/23 17:18	0.13	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.

Table A-2. Sub-Slab Depressurization System Operation Summary
Former Lockheed Martin French Road Facility, Utica, New York

Date	Date/Time			Process	Description	Suspected Cause of Alarm	Corrective Action
	Shutdown	Online	Off (days)				
6/11/2023	6/11/23 19:51	6/11/23 20:18	0.02	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/12/2023	6/12/23 21:58	6/12/23 22:15	0.01	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/13/2023	6/13/23 18:27	6/13/23 19:10	0.03	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/14/2023	6/14/23 22:18	6/15/23 9:00	0.45	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/16/2023	6/16/23 9:25	6/16/23 10:34	0.05	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/17/2023	6/17/23 18:33	6/17/23 19:02	0.02	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/19/2023	6/19/23 13:49	6/19/23 14:20	0.02	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/21/2023	6/21/23 22:05	6/22/23 9:37	0.48	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/22/2023	6/22/23 22:06	6/23/23 9:10	0.46	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/24/2023	6/24/23 14:00	6/24/23 14:20	0.01	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/25/2023	6/25/23 23:13	6/26/23 11:04	0.49	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/26/2023	6/26/23 16:58	6/26/23 17:19	0.01	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/27/2023	6/27/23 21:09	6/28/23 9:15	0.50	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/28/2023	6/28/23 13:36	6/28/23 14:12	0.03	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
6/30/2023	6/30/23 21:37	7/1/23 11:00	0.56	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
3rd Quarter (2023) % Run Time Summary (through September 30)		**Days Offline** 20.60	**Days Online** 71.40	**% Run Time** 77.61%			
7/3/2023	7/3/2023 23:45	7/4/23 11:45	0.50	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/5/2023	7/5/2023 2:28	7/5/23 9:11	0.28	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/6/2023	7/6/2023 1:52	7/6/23 9:30	0.32	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/8/2023	7/8/2023 2:10	7/8/23 11:00	0.37	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/9/2023	7/9/2023 18:54	7/10/23 9:02	0.59	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/10/2023	7/10/2023 17:57	7/11/23 9:23	0.64	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/11/2023	7/11/2023 23:22	7/12/23 9:52	0.44	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/12/2023	7/12/2023 21:11	7/13/23 9:15	0.50	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/13/2023	7/13/2023 22:27	7/14/23 9:18	0.45	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/14/2023	7/14/2023 23:55	7/15/23 10:15	0.43	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/17/2023	7/17/2023 18:27	7/17/23 19:10	0.03	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/18/2023	7/18/2023 2:02	7/18/23 9:00	0.29	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/18/2023	7/18/2023 23:11	7/19/23 10:15	0.46	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/19/2023	7/19/2023 20:33	7/20/23 9:05	0.52	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/23/2023	7/23/2023 1:38	7/23/23 9:20	0.32	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/23/2023	7/23/2023 22:05	7/24/23 9:40	0.48	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/24/2023	7/24/2023 22:06	7/25/23 9:10	0.46	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/25/2023	7/25/2023 22:37	7/26/23 9:20	0.45	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/29/2023	7/29/2023 3:36	7/29/23 11:04	0.31	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
7/30/2023	7/30/2023 19:19	7/31/23 12:15	0.71	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/2/2023	8/2/2023 17:58	8/3/23 9:15	0.64	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/6/2023	8/6/2023 2:36	8/6/23 11:15	0.36	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/6/2023	8/6/2023 20:12	8/7/23 9:15	0.54	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	Technician on-site to perform monthly inspection and re-started the system.
8/8/2023	8/8/2023 1:56	8/8/23 9:15	0.30	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/8/2023	8/8/2023 20:54	8/9/23 9:05	0.51	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/10/2023	8/10/2023 19:40	8/11/23 9:15	0.57	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/11/2023	8/11/2023 23:06	8/12/23 11:45	0.53	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/14/2023	8/14/2023 18:30	8/15/23 9:15	0.61	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/15/2023	8/15/2023 19:32	8/16/23 8:40	0.55	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/16/2023	8/16/2023 20:46	8/17/23 9:05	0.51	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/18/2023	8/18/2023 7:10	8/18/23 8:15	0.05	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/19/2023	8/19/2023 5:39	8/19/23 12:15	0.27	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/21/2023	8/21/2023 21:54	8/22/23 9:15	0.47	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/22/2023	8/22/2023 17:46	8/23/23 9:10	0.64	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/23/2023	8/23/2023 20:18	8/24/23 13:50	0.73	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	Control conrractor and technician on-site to replace VFD and re-started the system.
8/24/2023	8/24/2023 18:35	8/25/23 9:00	0.60	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/28/2023	8/28/2023 21:46	8/29/23 9:05	0.47	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/29/2023	8/29/2023 17:56	8/30/23 9:15	0.64	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/30/2023	8/30/2023 18:30	8/31/23 8:45	0.59	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
8/31/2023	8/31/2023 21:05	9/1/23 9:15	0.51	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
9/1/2023	9/1/2023 17:23	9/2/23 12:10	0.78	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
9/2/2023	9/2/2023 20:05	9/3/23 11:15	0.63	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
9/4/2023	9/4/2023 19:16	9/5/23 8:30	0.55	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
4th Quarter (2023) % Run Time Summary (through December 31)		**Days Offline** 8.72	**Days Online** 83.28	**% Run Time** 90.52%			
10/18/2023	10/18/2023 14:19	10/18/23 14:30	0.01	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/20/2023	10/20/2023 6:19	10/20/23 9:30	0.13	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/21/2023	10/21/2023 19:12	10/21/23 20:00	0.03	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/24/2023	10/24/2023 4:33	10/24/23 9:00	0.19	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/25/2023	10/25/2023 18:29	10/26/23 9:10	0.61	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/26/2023	10/26/2023 10:47	10/26/23 15:30	0.20	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/27/2023	10/27/2023 4:42	10/27/23 9:05	0.18	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/28/2023	10/28/2023 2:01	10/28/23 11:00	0.37	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/29/2023	10/29/2023 16:04	10/29/23 18:00	0.08	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/30/2023	10/30/2023 4:34	10/30/23 9:00	0.18	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
10/31/2023	10/31/2023 19:36	11/1/23 11:00	0.64	24	Low-Post Blower Pressure.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	Technician on-site to perform monthly inspection and re-started the system.
11/1/2023	11/1/2023 19:55	11/2/23 9:00	0.55	22	High-Pre Carbon Temperature.	Pressure was below 0.5 inches of water (Low-Post Blower Pressure Setpoint)	The system was restarted remotely and monitored.
11/2/2023	11/2/2023 13:10	11/2/23 13:45	0.02	21	System shutdown due to VFD off.	Cause of shutdown currently unknown and currently being investigated.	The system was restarted remotely and monitored.
11/3/2023	11/3/2023 19:42	11/4/23 11:00	0.64	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/7/2023	11/7/2023 2:24	11/7/23 9:00	0.28	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/8/2023	11/8/2023 3:16	11/8/23 8:45	0.23	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/9/2023	11/9/2023 2:01	11/9/23 8:50	0.28	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/10/2023	11/10/2023 21:10	11/11/23 11:15	0.59	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/13/2023	11/13/2023 22:47	11/14/23 9:00	0.43	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/14/2023	11/14/2023 22:24	11/15/23 8:15	0.41	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/15/2023	11/15/2023 20:15	11/16/23 8:30	0.51	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/16/2023	11/16/2023 19:20	11/17/23 10:00	0.61	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/20/2023	11/20/2023 18:56	11/21/23 8:20	0.56	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/22/2023	11/22/2023 19:54	11/23/23 11:15	0.64	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
11/25/2023	11/25/2023 2:21	11/25/23 10:40	0.35	16	High vacuum alarm.	Vacuum reached 30 inches of water (High Vacuum Setpoint)	The system was restarted remotely and monitored.
1st Quarter (2024) % Run Time Summary (through March 31)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
2nd Quarter (2024) % Run Time Summary (through June 30)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
3rd Quarter (2024) % Run Time Summary (through July 31)		**Days Offline** 0.00	**Days Online** 91.00	**% Run Time** 100.00%			
4th Quarter (2024) % Run Time Summary (through December 31)		**Days Offline** 0.93	**Days Online** 91.07	**% Run Time** 98.99%			
10/23/2024	10/23/2024 13:35	10/24/2024 12:00	0.93	10	High Post-Blower Temperature	ConMed informed us of a water line leak on 10-21-2024. We responded to the site on 10-21-2024 and shut down SDS-3 and SDS-5 because of water and a damaged floor. Having the two points shutdown caused lower flow which in turn caused a high temperature alarm on 10-23-2024.	A site visit was performed on 10-24-2024 to restart the system and partially reopen SDS-3. SDS-5 remained shut down until the water pipe and area floor repair is completed.
2024 % Run Time Summary (through December 31)		**Days Offline** 0.93	**Days Online** 364.07	**% Run Time** 99.75%			

Table A-2. Sub-Slab Depressurization System Operation Summary
Former Lockheed Martin French Road Facility, Utica, New York

Date	Date/Time			Process	Description	Suspected Cause of Alarm	Corrective Action
	Shutdown	Online	Off (days)				
1st Quarter (2025) % Run Time Summary (through March 31)		**Days Offline** 4.61	**Days Online** 85.39	**% Run Time** 94.88%			
2/3/2025	2/3/2025 14:30	2/5/2025 14:30	2.00	10	Low Pre-Blower Vacuum	Water in sensor tube	A site visit was performed on 2/5/2025 to restart the system and after multiple attempts and draining water from a drain tube to the A/W Separator at VT-201, system eventually re-started.
2/7/2025	2/7/2025 19:14	2/10/2025 9:53	2.61	23	High Post-Blower Pressure	Ice and water clogging the effluent stack	A site visit was performed on 2/10/2025 after a large storm prevented travel to the site. Eventually able to restart the system after identifying data logged high pressure conditions at VT-201 and raising pressure limit to keep system running. A follow-up site visit was performed on 2/11/2025 to re-route blower exaust around the heat exchanger after determining that there was a likely ice restriction in the stack. System running normally after this change.
2nd Quarter (2025) % Run Time Summary (through June 30)		**Days Offline** 1.29	**Days Online** 89.71	**% Run Time** 98.58%			
5/13/2025	5/13/2025 16:11	5/13/2025 17:02	0.04	10	High Post-Blower Temperature	Sensor limit set too low for warm weather operation	Raised system shutdown temp setpoint from 200 to 220 Deg F.
6/23/2025	6/23/2025 18:37	6/24/2025 8:30	0.58	10	High Post-Blower Temperature	Extreme ambient temperatures (95 degree day) led to high effluent temperature at TT201	System was restarted the next morning
6/24/2025	6/24/2025 16:10	6/25/2025 8:15	0.67	10	High Post-Blower Temperature	Extreme ambient temperatures (95 degree day) led to high effluent temperature at TT201	System was restarted the next morning
3rd Quarter (2025) % Run Time Summary (through September 30)		**Days Offline** 5.68	**Days Online** 86.32	**% Run Time** 93.82%			
7/7/2025	7/7/2025 15:21	7/7/2025 17:01	0.07	10	High Post-Blower Temperature	High ambient temperatures (85 degree day) led to high effluent temperature at TT201	System was restarted later that day
7/12/2025	7/12/2025 5:15	7/14/2025 8:30	2.14		ACFAIL- Power Outage	Likely caused by loss of power	System was restarted remotely on Monday morning.
7/29/2025	7/29/2025 18:23	7/31/2025 8:30	1.59	10	High Post-Blower Temperature	High ambient temperatures (85 degree day) led to high effluent temperature at TT201	System was restarted the morning after the following day
8/11/2025	8/11/2025 18:41	8/12/2025 10:02	0.64	10	High Post-Blower Temperature	High ambient temperatures (85 degree day) led to high effluent temperature at TT201	System was restarted the next morning
8/20/2025	8/20/2025 7:52	8/20/2025 8:41	0.03		ACFAIL- Power Outage	Likely caused by loss of power	System was restarted remotely the same day
8/20/2025	8/20/2025 10:58	8/21/2025 16:10	1.22		ACFAIL- Power Outage	Confirmed caused by loss of power	System was manually restared following confirmation from site contact that power to facility was restored 8/21, remote monitoring was reestablished the following morning 8/22.
4th Quarter (2025) % Run Time Summary (through December 31)		**Days Offline** 0.11	**Days Online** 91.89	**% Run Time** 99.88%			
12/17/2025	12/17/2025 12:48	12/17/2025 15:20	0.11		Switched PLC and modem	UPS lost power while PLC and modem were being switched	System was restarted using an extension cable until UPS was operational. ConMed assisted with restoring power.
2025 % Run Time Summary (through December 31)		**Days Offline** 11.69	**Days Online** 353.31	**% Run Time** 96.80%			

Table A-3. Combined Effluent Air Sample Analytical Results
Former Lockheed Martin French Road Facility, Utica, New York

Sample Location	Pre-Carbon SP-301						SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303		SP-303	
Date	4/8/2020		7/27/2020		10/6/2020		1/6/2021		4/8/2021		7/9/2021		10/4/2021		1/10/2022		4/5/2022		7/15/2022		10/31/2022		1/4/2023		4/14/2023		7/13/2023		10/7/2023		3/1/2024		4/24/2024		7/1/2024		10/8/2024		1/6/2025		4/17/2025		7/2/2025		10/6/2025	
Volatile Organic Compou0s(1)	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q
1,1,1-Trichloroethane	< 2.50		< 2.40		< 2.40		< 2.30		**2.4**		<2.7		<2.3		<2.2		<2.2		<2.3		<2.3		<1.9		**3.3**		**3**		**1.7**		**1.3**		**1.4**		**1.3**		**1.22**		**1.08**		<2.16		<3.06		<2.64	
1,1,2,2-Tetrachloroethane	< 1.20		< 1.20		< 1.20		< 1.50		< 1.10		< 1.10		< 1.10		< 2.80		< 2.80		< 2.80		< 3.00		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.38		< 1.37		<2.72		<3.85		<3.32	
1,1,2-Trichloroethane	< 1.60		< 1.20		< 1.20		< 1.20		< 1.10		< 1.10		< 1.10		< 2.20		< 2.20		< 2.10		< 1.20		< 0.93		< 0.93		< 0.93		< 0.93		< 0.93		< 0.93		< 0.93		< 0.93		< 1.89		< 1.09		<2.16		<3.06		<2.64	
1,1-Dichloroethane	< 1.80		< 1.80		< 1.80		< 1.70		< 1.70		< 1.70		< 1.70		< 1.60		< 1.60		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.40		0.283		<1.6		<2.27		<1.96	
1,1-Dichloroethene	< 1.80		< 1.80		< 1.80		< 1.70		< 1.60		< 1.60		< 1.70		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.37		< 0.793		<1.57		<2.22		<1.92	
1,2,4-Trichlorobenzene	< 16.90		< 16.90		< 16.90		< 15.80		<15.2		<15.2		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<15.8		<1.5		< 2.57		< 1.48		<2.94		<4.16		<3.59	
1,2,4-Trimethylbenzene	< 2.20		< 2.20		< 2.20		< 2.10		**3.2**		**9.3**		**2.6**		<2.0		<2.0		<2.0		<2.0		**1.9**		**1.9**		**1.1**		<0.98		**0.63**		<0.66		**2**		**0.934**		< 0.983		<1.95		<2.75		<2.38	
1,2-Dibromoethane	< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 2.66		< 1.54		<3.04		<4.3		<3.72	
1,2-Dichlorobenzene	< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 6.40		< 6.20		< 6.20		< 6.20		< 6.20		< 5.10		< 5.10		< 5.10		< 5.10		< 5.10		< 5.10		< 5.10		< 5.10		< 2.08		< 1.2		<2.38		<3.37		<2.91	
1,2-Dichloroethane	< 0.92		< 0.92		< 0.92		< 0.86		< 0.86		< 0.86		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 0.81		< 0.81		< 0.81		< 0.81		< 0.81		< 1.40		< 0.809		<1.6		<2.27		<1.96	
1,2-Dichloropropane	< 2.10		< 2.10		< 2.10		< 2.10		< 2.10		< 2.10		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 0.92		< 0.92		< 0.92		< 0.92		< 0.92		< 1.60		< 0.924		<1.83		<2.59		<2.24	
1,3,5-Trimethylbenzene	< 2.20		< 2.20		< 2.20		< 1.70		**3.6**		**5.7**		<2.1		<2.1		<2.1		<2.1		<2.1		**1.6**		<0.49		<0.98		<0.98		<0.98		**33**		< 1.70		< 0.983		<1.95		<2.75		<2.38	
1,3-butadiene	< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 1.00		< 0.44		< 0.44		< 0.44		< 0.44		< 0.77		< 0.442		<0.876		<1.24		<1.07	
1,3-Dichlorobenzene	< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 1.20		< 1.20		< 1.20		< 1.20		< 2.08		< 1.2		<2.38		<3.37		<2.91	
1,4-Dichlorobenzene	< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 6.90		< 1.20		< 1.20		< 1.20		< 1.20		< 2.08		< 1.2		<2.38		<3.37		<2.91	
1,4-Dioxane	< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 6.10		< 1.25		< 0.721		<1.43		<2.02		<1.74	
2-Chlorotoluene	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		<NS		NS	
2,2,4-trimethylpentane	< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 1.62		< 0.934		<1.85		<2.62		<2.26	
4-ethyltoluene	< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		< 5.60		**3.3**		< 1.70		< 0.983		<1.95		<2.75		<2.38	
4-Isopropyltoluene	< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		NS		NS		<4.06		<NS		NS	
Acetone	<13.5		**32.5**		**33.6**		**46.0**		**69.6**		**102.0**		**48.6**		**34.3**		**31.6**		**82.5**		**43**		**24.3**		**64**		**58**		**41**		**45**		**57**		**38**		**18.8**		**33**		**77**		**78**		**36**	
Allyl chloride	< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		NS		< 0.626		<1.24		<1.75		<1.51	
Benzene	< 0.73		**3.1**		**1.1**		**1.1**		**9.7**		**288**		<0.68		<0.66		**2.1**		**12.3**		< 0.7		**9.1**		**1.2**		<0.32		**0.92**		**0.45**		<0.43		**0.64**		< 1.11		**0.272**		<1.27		<1.79		<1.55	
Benzyl chloride	< 5.90		< 5.90		< 5.90		< 5.50		< 5.50		< 5.50		< 5.50		< 5.30		< 5.30		< 5.30		< 5.70		< 5.70		< 5.70		< 5.70		< 5.70		< 5.70		< 5.70		< 5.70		< 1.79		< 1.04		<2.05		<2.9		<2.51	
Bromodichloromethane	< 3.00		< 3.00		< 3.00		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		< 2.90		**0.98**		<1.3		<1.3		<1.3		<1.3		< 2.32		< 1.34		<2.65		<3.75		<3.24	
Bromoform	< 11.80		< 11.80		< 11.80		< 11.00		< 11.00		< 11.00		< 11.00		< 11.00		< 11.00		< 11.00		< 11.30		< 11.30		< 11.30		< 11.30		< 2.10		< 2.10		< 2.10		< 2.10		< 3.58		< 2.07		<4.09		<5.79		<5	
Bromomethane	< 1.80		**1.9**		<1.7		<1.7		<1.7		<1.7		<1.7		<1.7		<1.7		**9.8**		< 1.7		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3		< 1.34		< 0.777		<1.54		<2.17		<1.88	
Carbon disulfide	< 1.40		**1.6**		<1.4		<1.4		**130**		**5.9**		**31.8**		<1.3		**14.5**		**16.9**		< 1.4		**2.5**		<1.6		<1.6		<6.2		<6.2		<6.2		<6.2		< 1.08		0.361		<1.23		<1.74		<1.51	
Carbon tetrachloride	< 2.90		< 2.80		< 2.80		< 2.70		< 2.70		< 2.70		< 2.70		< 2.60		< 2.60		< 2.60		< 2.60		< 2.60		< 2.60		< 2.60		< 1.30		< 1.30		< 1.30		< 1.30		< 2.18		0.667		<2.49		<3.52		<3.04	
Chlorobenzene	< 2.10		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 0.92		< 0.92		< 0.92		< 0.92		< 1.59		< 0.921		<1.82		<2.58		<2.23	
Chloroethane	< 1.20		< 1.20		< 1.20		< 1.10		< 1.10		< 1.10		< 1.10		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 2.70		< 0.53		< 0.53		< 0.53		< 0.53		< 0.91		< 0.528		<1.04		<1.48		<1.28	
Chloroform	**6**		**11.2**		**13.6**		**11.7**		**20.1**		**36.3**		**39.5**		**14**		**12.4**		**59.7**		**42**		**5.8**		**27**		**56**		**25**		**17**		**14**		**34**		**19.6**		**11.6**		**6.3**		**29.6**		**7.86**	
Chloromethane	< 0.94		**1.3**		<0.9		**1.1**		<1.1		<1.1		<1.1		<1.1		<0.96		**1.9**		< 0.9		**1.1**		**1.4**		**0.65**		<0.83		**0.64**		**0.65**		<0.83		**0.586**		0.5		<0.818		<1.16		<0.99	
cis-1,2-Dichloroethene	< 1.80		< 1.80		< 1.70		< 1.70		< 1.70		< 1.70		< 1.70		< 1.60		< 1.60		< 1.90		< 1.70		<1.7		**2.1**		**1.6**		**1.5**		**1.1**		**1.1**		**0.9**		**1.13**		**1.31**		<1.57		<2.22		<1.92	
cis-1,3-Dichloropropene	< 2.10		< 2.10		< 2.10		< 2.10		< 2.10		< 2.10		< 4.90		< 4.70		< 4.70		< 4.70		< 5.00		< 5.00		< 5.00		< 5.00		< 5.00		< 5.00		< 5.00		< 5.00		< 1.57		< 0.908		<1.8		<2.54		<2.2	
Cyclohexane	< 3.90		**10.9**		**7.8**		**7.5**		**6.7**		<4.2		<4.2		**10.9**		<4.0		**6.7**		**4.1**		<2.9		<2.9		<2.9		<2.9		**2.3**		**2.1**		**170**		**1.2**		**4.54**		**5.8**		**5.68**		**12**	
Dibromochloromethane	< 3.90		< 3.90		< 3.90		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 3.60		< 2.95		< 1.7		<3.37		<4.77		<4.12	
Ethyl acetate	< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.60		< 1.50		< 1.50		**1.9**		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		**17**		<4.8		<7.2		< 3.12		< 1.8		<3.57		<5.05		4.58	
Ethylbenzene	< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		< 1.80		**2.8**		< 1.50		< 0.869		<1.72		<2.43		<2.1	
Freon 11	**3.8**		<2.5		<2.5		<2.4		**2.4**		**5.7**		<2.4		<2.4		<2.6		**3.5**		< 2.5		**3.9**		**3.6**		<2.2		<4.5		<2.2		<2.2		<2.2		NS		1.51		<2.23		18.3		<2.72	
Freon 113	< 2.60		< 3.40		< 3.40		< 3.30		< 3.30		**4.1**		<3.3		<3.2		<3.6		**7.2**		< 3.4		< 2.6		< 2.6		< 2.6		< 6.1		< 6.1		< 6.1		< 6.1		**1.63**		1.46		<3.04		<4.29		<3.71	
Freon 114	< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 2.40		< 1.40		< 1.40		< 1.40		< 1.40		< 2.42		< 1.4		<2.77		<3.91		3.38	
Freon 12	**3.6**		**4.7**		**6.4**		**4.3**		**4**		**4.6**		**6.9**		**4.3**		**3.3**		**6.6**		**5.6**		**3.3**		**6.5**		**2.5**		**3.8**		<0.49		**3.4**		**2.5**		NS		**4.39**		NS		**4.31**		**5.19**	
Freon 22	<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		<2.8		NS		NS		NS		NS		NS	
Heptane	< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		**3**		<1.9		<1.9		**3.2**		**1.6**		**4.1**		**1.2**		**2**		**1.8**		**6**		**9.5**		**3.25**		**0.561**		**3.85**		**6.07**		**3.13**	
Hexachloro-1,3-butadiene	< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 12.10		< 3.69		< 2.13		<4.22		<5.97		NS	
Hexane	< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 4.00		< 1.40		< 1.40		< 1.40		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.22		< 0.705		27.7		<1.97		4.19	
Isopropyl alcohol	**388**		**417**		**275**		**370**		**516**		**439**		**285**		**279**		**200**		**548**		**251**		**97.2**		**340**		**220**		**250**		**200**		**220**		**160**		**212**		**116**		**364**		**261**		**242**	
m&p-Xylene	< 1.50		**7.2**		<3.8		<3.7		**15.4**		**90.8**		<3.7		<3.6		**6.9**		<4.2		<3.8		**4.9**		**3.3**		**0.96**		<1.7		**0.92**		<1.2		**6.30**		< 3.01		**0.63**		<3.44		<4.86		<4.2	
Methyl Butyl Ketone	< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 7.00		< 1.42		< 0.82		<1.62		<2.29		<1.98	
Methyl Ethyl Ketone	<6.7		<6.7		<6.7		<6.3		<6.3		<6.3		<6.3		<6.3		<6.3		<6.3		**9.8**		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		**1.29**		0.684		<2.92		5.4		<3.57	
Methyl Isobutyl Ketone	< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 9.30		< 3.54		< 2.05		NS		<5.74		<4.96	
Methyl methacrylate	< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		NS		NS		NS		NS		NS	
Methyl tert-butyl ether	< 8.20		< 8.20		< 8.20		< 8.20		< 8.20		< 8.20		< 8.20		< 7.40		< 7.40		< 8.60		< 8.60		< 8.60		< 8.60		< 8.60		< 8.60		< 8.60		< 8.60		< 8.60		< 1.25		< 0.721		<1.43		<2.02		<1.74	
Methylene chloride	**27.9**		**147.0**		**84.9**		**107.0**		**102.0**		**39.6**		**33.6**		**16.0**		**116**		**78**		**31.5**		**19**		**57**		**36**		**33**		**55**		**27**		**25**		**197**		**54**		**90**		**98**		**55**	
Naphthalene	< 4.50		< 4.50		< 4.50		< 4.50		< 4.50		< 4.50		< 4.50		< 10.80		< 10.80		< 6.30		< 6.30		< 6.30		< 6.30		< 6.30		< 6.30		< 6.30		< 6.30		< 6.30		< 1.81		< 0.996		<1.97		<2.79		<2.41	
n-Butane	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
n-Butylbenzene	< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		**0.473**		NS		NS		NS		NS	
n-Propylbenzene	< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		< 4.20		NS		NS		NS		NS		NS	
o-Xylene	< 1.50		**3**		<1.9		<1.9		<1.9		**17.8**		<1.9		<1.9		**2.4**		<2.1		<1.9		**1.6**		**1.5**		**0.43**		<0.87		<0.87		<0.87		**32**		NS		**0.378**		<1.72		<2.43		<2.1	
Propylene	<0.78		<0.78		**1.5**		**1.1**		**1.1**		**2.6**		<1.8		<1.8		<2.0		<2.0		<2.0		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		< 1.5		NS		NS		NS		NS		NS	
sec-Butylbenzene	< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		< 4.70		NS		NS		NS		NS		NS	
Styrene	< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		< 2.00		<2.00		<2.00		<2.00		**0.515**		< 0.852		<1.69		<2.38		<2.06	
tert-Butyl alcohol	< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 5.20		< 2.62		< 1.52		<3		<4.24		<3.67	
tert-Butylbenzene	< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		< 1.90		NS		NS		NS		NS		NS	
Tetrachloroethylene	**56.7**		**112**		**115**		**118**		**88.9**		**88.5**		**111**		**69.1**		**80.8**		**133**		**75.1**		**16.1**		**51**		**120**		**84**		**59**		**87**		**78**		**71.2**		**51**		**41.1**		**97.6**		**61.7**	
Tetrahydrofuran	<1.3		<1.3		<1.3		**22.5**		**2.4**		**2.7**		**2.5**		<1.2		<1.2		<1.2		<1.3		<1.3		<1.3		<1.3		<1.3		<1.3		<1.3		<1.3		< 2.55		1.42		<2.92		14		<3.57	
Toluene	**2.8**		**7.8**		**2**		**3.9**		**11.3**		**207**		**4**		**2.4**		**8.7**		**12.4**		**2.7**		**3.4**		**6.3**		**2.1**		**3.5**		**1.6**		**0.81**		**2.3**		**1.11**		**0.58**		**1.87**		**2.69**		**1.82**	
trans-1,2-Dichloroethene	< 0.62		< 1.80		< 1.80		< 1.70		< 1.70		< 1.70		< 1.70		<1.6		<1.6		<1.6		<1.6		<1.6		<1.6		<1.6		<1.6		<1.6		**0.53**		<0.79		< 1.37		1.24		<1.57		NS		<1.92	
trans-1,3-Dichloropropene	< 1.60		< 1.60		< 1.60		< 1.90		< 1.90		< 1.90		< 1.90		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		<4.7		< 1.57		< 0.908		<1.8		<2.54		<2.2	
Trichloroethene	**9.9**		**16.1**		**15**		**14.6**		**11.4**		**15.5**		**12.2**		**10.9**		**7.8**		**15.4**		**10.6**		**4.1**		**9.7**		**12**		**9.5**		**7.3**		**7.2**		**11**		**9.94**		**7.9**		**6.07**		**6.29**		**7.95**	
Vinyl acetate	< 1.60		< 1.60		< 1.60		< 1.50		< 1.50		< 1.50		< 1.50		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 1.40		< 7.00		< 7.00		< 7.00		NS		NS		NS		NS		NS	
Vinyl Bromide	< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.50		< 1.51		< 0.874		<1.73		<2.45		<2.12	
Vinyl chloride	< 0.58		< 0.57		< 0.56		< 0.55		< 0.55		< 0.62		< 0.55		<1.1		<0.6		<0.61		<0.56		< 0.44		**0.64**		<0.26		<0.51		<0.26		<0.26		<0.51		< 0.88		< 0.511		<1.01		<1.43		<1.24	
Cumulative VOCs (µg/m3)(4)	**498.70**		**777.30**		**553.50**		**709.50**		**1,000.20**		**1,365.10**		**577.70**		**443.90**		**486.50**		**995.80**		**478.60**		**199.80**		**586.14**		**516.52**		**456.88**		**411.04**		**428.19**		**612.54**		**521.79**		**295.47**		**623.19**		**627.64**		**441.72**	
Target VOCs (µg/m3)(5)	**66.60**		**128.10**		**130.00**		**133.00**		**100.30**		**104.00**		**123.20**		**80.00**		**88.60**		**148.40**		**85.70**		**20.20**		**63.44**		**133.60**		**95.00**		**67.40**		**95.83**		**89.90**		**82.27**		**61.45**		**47.17**		**103.89**		**69.65**	

Table A-3. Combined Effluent Air Sample Analytical Results
Former Lockheed Martin French Road Facility, Utica, New York

Notes:

1. Samples analyzed for VOCs using USEPA Method TO-15.
2. Cumulative VOCs calculated using only detected concentrations.
3. Target VOCs calculated using only detected concentrations of the following compou0s: 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethylene, trans-1,2-dichloroethene, trichloroethene, a0 vinyl chloride.
4. Due to COVID-19, a combined influent sample was collected during the April 2020 quarterly event.
5. A pre-carbon vapor sample was inadvertenly not collected on 7/7/20. The combined influent sample was collected on July 27, 2020.
6. As per the NYSDEC approved OM&M optimization, a combined influent vapor sample will be collected going forward.

Definitions:

< - less than reporting limit listed
J - I0icates that the result was less than the RL, but greater than or equal to the MDL a0 the concentration is an estimate.
B - I0icates that the compou0 was also identified in the method blank a0 sample.
D - I0icates that the sample results are obtained from a dilution.
E - I0icates that the result exceeded the calibration range.
U - I0icates that compou0 was analyzed for but was not detected.
NS - Not Sampled For
Q - data qualifier
µg/m^3 - micrograms per cubic meter
VOC - Volatile Organic Compou0s
compound

Table A-4. Sub-Slab Depressurization System Cumulative Mass Removed
Former Lockheed Martin French Road Facility, Utica, New York

Date	Total Target VOC Mass Removal Rate Per Reporting Period (g/day)[3]	Days in Reporting Period	Target VOC Mass Removed Per Reporting Period (lb)[4]	Cumulative Target VOC Mass Removed (lb)[5]	Combined Influent[10]			Mid-Carbon			Combined Effluent			Target VOC Mass Emitted Per Reporting Period (lb)[6]	Cumulative Target VOC Mass Emitted (lb)[5]	Target VOC Mass Adsorption Rates			
					Cumulative Target VOCs (µg/m3)[1]	Flow Rate (scfm)	Target VOC Mass Per Day (g/day)	Cumulative Target VOCs (µg/m3)[1]	Flow Rate (scfm)	Target VOC Mass Per Day (g/day)	Cumulative Target VOCs (µg/m3)[1]	Flow Rate (scfm)[2]	Target VOC Emission Rate (g/day)			Percentage Adsorbed by Lead Carbon Per Reporting Period (%)	Percentage Adsorbed by 2nd Carbon Per Reporting Period (%)	Cumulative Target VOC Mass Adsorbed By Carbon (lb)	Percentage Adsorbed by Both Carbons Per Reporting Period (%)
07/17/08	10.220	1	0.023	0.023	-	-	-	-	-	-	1.700	102	0.007	0.000	0.000	-	-	0.023	99.93
08/13/08	0.432	27	0.317	0.340	-	-	-	-	-	-	0.000	55	0.000	0.000	0.000	-	-	0.339	100.00
09/11/08	2.029	29	0.079	0.418	-	-	-	-	-	-	1.000	78	0.003	0.000	0.000	-	-	0.418	99.84
10/10/08	3.154	29	0.166	0.584	-	-	-	-	-	-	2.890	81	0.010	0.000	0.001	-	-	0.583	99.70
04/07/09	1.724	179	0.963	1.546	-	-	-	-	-	-	0.000	91	0.000	0.002	0.003	-	-	1.544	100.00
07/01/09	2.260	85	0.373	1.920	-	-	-	-	-	-	0.760	90	0.003	0.000	0.003	-	-	1.917	99.88
10/9/2009[7]	2.576	100	0.533	2.453	-	-	-	371.160	99	1.498	2.170	99	0.009	0.001	0.004	41.84	99.42	2.449	99.66
12/31/2009[8]	2.192	83	0.436	2.889	-	-	-		-	-	-	-	0.010	0.002	0.006	-	-	2.883	99.56
01/21/10	1.809	21	0.102	2.990	267.700	93	1.015	3.160	93	0.012	2.760	93	0.010	0.000	0.006	99.34	12.66	2.984	99.42
04/07/10	0.786	76	0.217	3.208	162.000	119	0.786	2.400	119	0.012	2.600	119	0.013	0.002	0.008	98.52	-8.33	3.200	98.40
7/8/2010	1.621	92	0.244	3.452	283.14	86	0.993	11	86	0.039	4.77	86	0.017	0.003	0.011	97.62	56.64	3.441	98.97
10/6/2010	1.429	90	0.303	3.755	393.90	89	1.429	3.94	89	0.014	3.07	89	0.011	0.003	0.014	99.00	22.08	3.741	99.22
12/31/2010[8][9]	1.093	86	0.239	3.994	-	-	-	-	-	-	-	-	0.010	0.002	0.016	-	-	3.978	99.06
1/7/2011	0.756	7	0.017	4.011	-	-	-	3	92	0.011	2.5	92	0.009	0.000	0.016	98.52	16.67	3.994	98.76
3/8/2011	0.363	60	0.074	4.085	-	-	-	0.83	82	0.003	0	82	0.000	0.001	0.017	99.23	100.00	4.068	100.00
4/4/2011	0.766	27	0.034	4.118	-	-	-	4.26	77	0.013	1	77	0.003	0.000	0.017	98.25	76.53	4.101	99.59
7/6/2011	3.723	93	0.460	4.578	-	-	-	3.20	128	0.017	0.69	128	0.004	0.001	0.018	99.55	78.44	4.561	99.90
10/12/2011	0.867	98	0.496	5.074	-	-	-	0.73	62	0.002	1.94	62	0.005	0.001	0.018	99.79	-165.75	5.056	99.43
12/31/2011[8]	1.091	80	0.192	5.266	-	-	-	-	-	-	-	-	0.004	0.001	0.019	-	-	5.247	99.65
1/11/2012	1.315	11	0.026	5.293	-	-	-	4.50	76	0.014	0.89	76	0.003	0.000	0.019	98.94	80.22	5.274	99.79
4/3/2012	0.919	83	0.204	5.497	-	-	-	2.41	70	0.007	0	70	0.000	0.000	0.019	99.25	100.00	5.478	100.00
7/11/2012	1.600	99	0.275	5.772	-	-	-	5.40	87	0.019	0	87	0.000	0.000	0.019	98.80	100.00	5.752	100.00
10/17/2012	2.603	98	0.454	6.226	-	-	-	3.60	75	0.011	1.7	75	0.005	0.001	0.020	99.58	52.78	6.206	99.80
1/15/2013	1.357	15	0.065	6.291	-	-	-	7.80	91	0.029	5	91	0.019	0.000	0.020	97.86	35.90	6.271	98.63
4/23/2013	0.725	98	0.225	6.516	-	-	-	3.44	68	0.009	4.06	68	0.011	0.003	0.024	98.69	-18.02	6.493	98.46
7/11/2013	0.750	79	0.128	6.645	-	-	-	3.80	73	0.011	0.00	73	0.000	0.001	0.025	98.49	100.00	6.620	100.00
10/23/2013	1.534	104	0.262	6.906	-	-	-	3.40	130	0.018	1.30	130	0.007	0.001	0.025	98.82	61.76	6.881	99.55
12/31/2013[11]	1.091	69	0.166	7.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	0.862	91	0.173	7.245	-	-	-	4.73	110	0.021	4.44	110	0.020	0.003	0.028	97.54	6.13	7.217	97.69
4/4/2014	0.740	101	0.165	7.410	-	-	-	3.73	146	0.022	5.37	146	0.032	0.006	0.034	97.01	-43.97	7.376	95.69
7/10/2014	0.992	82	0.179	7.590	-	-	-	21.30	124	0.108	3.92	124	0.020	0.005	0.039	89.13	81.60	7.551	98.00
10/9/2014	0.804	91	0.161	7.751	-	-	-	3.92	115	0.018	3.10	115	0.015	0.003	0.042	97.71	20.92	7.709	98.19
1/9/2015	0.667	91	0.148	7.899	-	-	-	6.90	117	0.033	8.50	117	0.041	0.006	0.048	95.07	-23.19	7.851	93.93
4/16/2015	0.693	97	0.145	8.044	-	-	-	7.650	119	0.037	6.57	119	0.032	0.008	0.055	94.62	14.12	7.989	95.38
7/8/2015	1.724	83	0.221	8.265	-	-	-	0.470	279	0.005	0.00	279	0.000	0.003	0.058	99.69	100.00	8.207	100.00
10/5/2015	0.639	89	0.232	8.497	-	-	-	0.170	102	0.001	0.22	102	0.001	0.000	0.058	99.89	-29.41	8.439	99.86
1/8/2016	0.597	95	0.129	8.626	-	-	-	0.83	130	0.004	0.00	130	0.000	0.000	0.058	99.26	100.00	8.568	100.00
4/7/2016	0.830	90	0.142	8.768	-	-	-	1.050	132	0.006	0.00	132	0.000	0.000	0.058	99.32	100.00	8.709	100.00
7/14/2016	0.876	98	0.184	8.952	-	-	-	1.950	154	0.012	0.55	154	0.003	0.000	0.059	98.60	71.79	8.893	99.61
10/12/2016	0.543	90	0.141	9.093	-	-	-	2.120	79	0.007	0.48	79	0.002	0.000	0.059	98.74	77.36	9.034	99.71
1/12/2017	0.079	92	0.063	9.156	-	-	-	0.000	61	0.000	0.00	61	0.000	0.000	0.059	100.00	100.00	9.096	100.00
4/13/2017	0.055	91	0.013	9.169	-	-	-	0.000	71	0.000	0.00	71	0.000	0.000	0.059	100.00	100.00	9.110	100.00
7/19/2017	0.101	97	0.017	9.186	-	-	-	1.900	120	0.009	0.00	120	0.000	0.000	0.059	90.80	100.00	9.127	100.00
10/3/2017	0.065	76	0.014	9.200	-	-	-	2.100	81	0.007	0.00	81	0.000	0.000	0.059	89.19	100.00	9.140	100.00
1/2/2018	0.389	91	0.045	9.245	-	-	-	0.000	53	0.000	0.00	53	0.000	0.000	0.059	100.00	100.00	9.186	100.00
4/2/2018	0.229	90	0.061	9.307	-	-	-	2.700	80	0.009	6.50	80	0.021	0.002	0.062	96.15	-140.74	9.245	90.74
7/10/2018	0.442	99	0.073	9.380	-	-	-	0.000	117	0.000	0.00	117	0.000	0.002	0.064	100.00	100.00	9.316	100.00
10/9/2018	0.376	91	0.082	9.462	-	-	-	5.300	93	0.020	3.90	93	0.015	0.001	0.065	94.65	26.42	9.397	96.06
1/2/2019	0.217	85	0.056	9.517	-	-	-	0.000	62	0.000	0.00	62	0.000	0.001	0.067	100.00	100.00	9.451	100.00
4/2/2019	0.790	90	0.100	9.617	-	-	-	0.000	94	0.000	0.00	94	0.000	0.000	0.067	100.00	100.00	9.551	100.00
7/9/2019	0.910	98	0.184	9.801	-	-	-	0.000	133	0.000	0.00	133	0.000	0.000	0.067	100.00	100.00	9.734	100.00
10/1/2019	0.695	84	0.149	9.950	-	-	-	0.000	95	0.000	0.00	95	0.000	0.000	0.067	100.00	100.00	9.883	100.00
1/21/2020	0.309	112	0.124	10.074	-	-	-	0.490	67	0.001	0.00	67	0.000	0.000	0.067	99.57	100.00	10.007	100.00
4/8/2020[12]	0.255	78	0.048	10.122	66.60	94	0.255	2.800	94	0.011	2.00	94	0.008	0.001	0.067	95.79	28.57	10.055	96.99
7/7/2020 [13]	0.533	90	0.078	10.200	128.10	102	0.533	2.600	102	0.011	4.70	102	0.020	0.003	0.070	97.97	-80.77	10.130	96.33
10/6/2020 [13]	0.424	91	0.096	10.296	130.00	80	0.424	0.000	80	0.000	0.00	80	0.000	0.002	0.072	100.00	100.00	10.224	100.00
1/6/2021 [13]	0.559	90	0.098	10.394	133.00	103	0.559	-	-	-	-	-	-		-	-	-	-	-
4/8/2021 [13]	0.466	90	0.102	10.495	100.30	114	0.466	-	-	-	-	-	-		-	-	-	-	-
7/9/2021 [13]	0.534	90	0.099	10.595	104.00	126	0.534	-	-	-	-	-	-		-	-	-	-	-
10/4/2021 [13]	0.603	85	0.107	10.701	123.20	120	0.603	-	-	-	-	-	-		-	-	-	-	-
1/10/2022	0.316	98	0.099	10.800	80.00	97	0.316	-	-	-	-	-	-		-	-	-	-	-
4/5/2022	0.368	85	0.064	10.864	88.60	102	0.368	-	-	-	-	-	-		-	-	-	-	-
7/15/2022	0.829	101	0.133	10.998	148.40	137	0.829	-	-	-	-	-	-		-	-	-	-	-
10/31/2022	0.388	108	0.145	11.143	85.70	111	0.388	-	-	-	-	-	-		-	-	-	-	-
1/4/2023	0.088	65	0.034	11.177	20.20	107	0.088	-	-	-	-	-	-		-	-	-	-	-
4/14/2023	0.217	100	0.034	11.210	63.44	84	0.217	-	-	-	-	-	-		-	-	-	-	-
7/13/2023	0.692	90	0.090	11.301	133.60	127	0.692	-	-	-	-	-	-		-	-	-	-	-
10/7/2023	0.484	86	0.111	11.412	95.00	125	0.484	-	-	-	-	-	-		-	-	-	-	-
3/1/2024	0.283	146	0.123	11.535	67.40	103	0.283	-	-	-	-	-	-		-	-	-	-	-
4/24/2024	0.461	54	0.044	11.580	95.83	118	0.461	-	-	-	-	-	-		-	-	-	-	-
7/1/2024	0.451	68	0.068	11.648	89.90	123	0.451	-	-	-	-	-	-		-	-	-	-	-
10/8/2024	0.423	99	0.095	11.743	82.27	126	0.423	-	-	-	-	-	-	-	-	-	-	-	-
1/6/2025	0.328	90	0.074	11.818	61.45	131	0.328	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2025	0.279	86	0.065	11.883	47.17	145	0.279	-	-	-	-	-	-	-	-	-	-	-	-
7/2/2025	0.517	91	0.078	11.961	103.89	122	0.517	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2025	0.332	96	0.077	12.038	69.65	117	0.332	-	-	-	-	-	-	-	-	-	-	-	-

Table A-4. Sub-Slab Depressurization System Cumulative Mass Removed
Former Lockheed Martin French Road Facility, Utica, New York

Target VOC Removed (lb)[4]	
Fourth Quarter - 2013	0.43
2013 Total (YTD)	0.85
First Quarter - 2014	0.17
Second Quarter - 2014	0.16
Third Quarter - 2014	0.18
Fourth Quarter - 2014	0.16
2014 Total (YTD)	0.68
First Quarter - 2015	0.15
Second Quarter - 2015	0.15
Third Quarter - 2015	0.22
Fourth Quarter - 2015	0.23
2015 Total (YTD)	0.75
First Quarter - 2016	0.13
Second Quarter - 2016	0.14
Third Quarter - 2016	0.18
Fourth Quarter - 2016	0.14
2016 Total (YTD)	0.60
First Quarter - 2017	0.06
Second Quarter - 2017	0.01
Third Quarter - 2017	0.02
Fourth Quarter 2017	0.01
2017 Total (YTD)	0.11
First Quarter - 2018	0.05
Second Quarter - 2018	0.06
Third Quarter - 2018	0.07
Fourth Quarter 2018	0.08
2018 Total (YTD)	0.26
First Quarter - 2019	0.06
Second Quarter - 2019	0.10
Third Quarter - 2019	0.18
Fourth Quarter 2019	0.15
2019 Total (YTD)	0.49
First Quarter - 2020	0.12
Second Quarter - 2020	0.05
Third Quarter - 2020	0.08
Fourth Quarter 2020	0.10
2020 Total (YTD)	0.35
First Quarter - 2021	0.098
Second Quarter - 2021	0.102
Third Quarter - 2021	0.099
Fourth Quarter - 2021	0.100
2021 Total (YTD)	0.399
First Quarter - 2022	0.099
Second Quarter - 2022	0.064
Third Quarter - 2022	0.133
Fourth Quarter - 2022	0.145
2022 Total (YTD)	0.441
First Quarter - 2023	0.034
Second Quarter - 2023	0.034
Third Quarter - 2023	0.090
FourthQuarter - 2023	0.111
2023 Total (YTD)	0.269
First Quarter - 2024	0.123
Second Quarter - 2024	0.044
Third Quarter - 2024	0.068
Fourth Quarter - 2024	0.095
2024 Total (YTD)	0.330
First Quarter - 2025	0.074
Second Quarter - 2025	0.065
Third Quarter - 2025	0.078
Fourth Quarter - 2025	0.077
Cummulative Total	12.038

Table A-4. Sub-Slab Depressurization System Cumulative Mass Removed
Former Lockheed Martin French Road Facility, Utica, New York

Notes:

1. Cumulative target VOC concentrations calculated using only detected concentrations of the following compounds: 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethylene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride.

2. Following the start of 2011, flowrates from each depressurization sump were estimated by measuring differential pressure at each individual sump's orifice plate. The sump flowrates were adjusted proportionally to one another so that their sum equals a cumulative influent flowrate as measured using an anemometer. Prior to the start of 2011, combined effluent flow rates estimated based on the differential pressure transmitter located between the blower and the carbon. Note that flow rates for SDS-1, SDS-2, and SDS-3 have been estimated based on adjusting them so that the sum of the SDS-1, SDS-2, and SDS-3 flow rates equal the flow rate measured by the differential pressure transmitter. SDS-1, SDS-2, and SDS-3 flow rates were adjusted by maintaining the same proportions observed by air velocities measured in the field at each location. All flow rates have been converted from acfm to scfm for this table.

3. Total target VOC mass removal rate was calculated using the sum of the target VOC mass removal rates for SDS-1, SDS-2, and SDS-3 through 2010. If individual samples were not collected from each SDS, then total mass removal rate is calculated using combined influent sample concentrations. Beginning in 2011 the total target VOC mass removal rate is calculated using the sum of the target VOC mass removal rates for SDS-1 through SDS-7.

4. Target VOC mass removed per reporting period calculated using an average of the current mass removal rate and the mass removal rate from the previous reporting period. Reporting period length used for mass removed calculation is the time elapsed since the previous reading.

5. Cumulative VOC mass removed and mass emitted estimates date back to 7/17/08, when SDS-3 was brought online.

6. Target VOC mass emitted per reporting period calculated using an average of the current mass emission rate and the mass emission rate from the previous reporting period. Reporting period length used for mass emitted calculation is the time elapsed since the previous reading.

7. SDS-1 vapor sample results from 10/9/09 not used in this table due to sampling procedure error. Results from the resampling of SDS-1 on 11/5/09 have been used for this table.

8. Vapor samples were not collected on 12/31/09, 12/31/10, 12/31/11, and 12/31/12. Total target VOC mass removal and target VOC emission rates were estimated for 12/31/09, 12/31/10, 12/31/11, and 12/31/12 by averaging the VOC removal and VOC emission rates from the previous and following sampling events, respectively.

9. It should be noted that samples from 1/7/11, which have been used to estimate mass removal and emission rates for 12/31/10, were collected while the upgraded system was in use and with all seven depressurization sumps online. The combined effluent flowrate used to calculate mass emission rate was the sum of the flowrates measured in the field from SDS-1, SDS-2, and SDS-3. The combined effluent VOC concentration used to calculate mass emission rate was based off of an effluent vapor sample collected with SDS-1 through SDS-7 online. It should also be noted that from 11/11/10 to 1/3/11, the system was typically offline for approximately 8 hours per work day. This has not been accounted for in mass removal or emission estimates.

10. Combined influent vapor samples are not collected, influent mass is tracked only from individual SDS points.

11. The total VOC removal (lbs) was estimated for the period from 10/23/13 and 12/31/13 using the average VOC concentrations and flowrate.

12. Due to COVID-19, no individual vapor samples were collected from SDS-1 to SDS-8; a combined influent vapor sample was collected during the April quarterly event.

13. As per the NYSDEC approved optimization of the OMM procedure, effluent (discharge to stack) vapor samples will be collected going forward.

Definitions:

g/day - grams per day
lb - pounds
scfm - standard cubic feet per minute
$\mu g/m^3$ - micrograms per cubic meter
VOC - Volatile Organic Compounds

Table A-5. Regulatory Status of Air Emissions
Former Lockheed Martin French Road Facility, Utica, New York

Volatile Organic Compounds[1]	AGC[1] (µg/m^3)	SGC[1] (µg/m^3)	1/6/2021		4/8/2021		7/9/2021		10/4/2021		1/10/2022		4/5/2022		7/15/2022		10/31/2022		1/4/2023		4/14/2023		7/13/2023		7/13/2023		10/7/2023		3/1/2024		4/24/2024		7/1/2024		10/8/2024		1/6/2025		4/17/2025		7/2/2025		10/6/2025		Emission Rate Potential[2,3,4] - Actual (lb/year)	Actual Annual Impact Percentage of AGC[5] (%)
			Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q	Result (µg/m3)	Q		
1,1,1-Trichloroethane	5,000	9,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		3		3		1.7		1.3		1.4		1.3		1.22		1.08		ND		ND		ND		-	-
1,1-Dichloroethene	0.63	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.283		ND		ND		ND		-	0.00
1,2,4-Trimethylbenzene	6	-	ND		3.2		9.3		2.6		ND		ND		ND		ND		ND		ND		1.1		1.1		ND		0.63		ND		2		0.934		ND		ND		ND		ND		-	-
1,2-Dichloroethane	0.038	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
1,3,5-Trimethylbenzene	6	-	ND		ND		5.7		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		33		ND		ND		ND		ND		ND		-	-
1,3-butadiene	0.032	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
1,4-Dichlorobenzene	0.09	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
1,4-Dioxane	0.2	3,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
2,2,4-trimethylpentane	3,300	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
4-ethyltoluene	-	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Acetone	30,000	180,000	ND		69.6		102		48.6		34.3		31.6		82.5		43		24.3		64		58		58		41		45		57		38		18.8		33.3		76.5		78.4		36.1		0.153	-
Benzene	0.13	1,300	ND		**9.7**		**288**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**0.45**		ND		**0.64**		ND		**0.272**		ND		ND		ND		-	-
Carbon disulfide	700	6,200	ND		130		5.9		31.8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.361		ND		ND		ND		-	-
Chlorobenzene	60	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Chloroethane	-	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Chloroform	14.7	150	ND		**20.1**		**36.3**		**39.5**		14		12.4		**59.7**		**42**		5.8		**27**		**56**		**56**		**25**		**17**		14		**34**		**19.6**		11.6		6.3		**29.6**		7.86		0.033	-
Chloromethane	90	22,000	ND		ND		ND		ND		ND		ND		ND		ND		1.1		1.4		0.65		0.65		ND		0.64		0.65		ND		0.586		0.5		ND		ND		ND		-	-
cis-1,2-Dichloroethene	63	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		2.1		1.6		1.6		1.5		1.1		1.1		0.9		1.13		1.31		ND		ND		ND		-	0.00
Cyclohexane	6,000	-	ND		6.7		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.3		2.1		170		1.2		4.54		5.78		5.68		12		0.051	-
Ethylbenzene	1,000	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Freon 11	5,000	9,000	ND		2.4		5.7		ND		ND		ND		3.5		ND		ND		ND		ND		ND		ND		ND		ND		ND		NS		1.51		ND		18.3		ND		-	-
Freon 113	180,000	960,000	ND		ND		4.1		ND		ND		ND		7.2		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.63		1.46		ND		ND		ND		-	-
Freon 114	17,000	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		3.38		0.014	-
Freon 12	12,000	-	4.3		4		4.6		6.9		4.3		3.3		6.6		5.6		3.3		6.5		2.5		2.5		3.8		ND		3.4		2.5		NS		4.39		NS		4.31		5.19		0.030	-
Freon 22	50,000	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		ND		NS		-	-
Heptane	3,900	210,000	ND		ND		ND		ND		3		ND		ND		ND		ND		ND		ND		ND		ND		1.8		6		9.5		3.25		0.561		3.85		6.07		3.13		0.013	-
Hexane	700	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		27.7		ND		4.19		0.018	-
Isopropyl alcohol	7,000	98,000	370		516		439		285		279		200		548		251		97.2		370		220		220		250		200		220		160		212		116		364		261		242		1.024	-
m&p-Xylene	100	22,000	ND		ND		90.8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.63		ND		ND		ND		-	-
Methyl Butyl Ketone	30	4,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Methyl Ethyl Ketone	5,000	13,000	ND		ND		ND		ND		ND		ND		ND		9.8		ND		ND		ND		ND		ND		ND		ND		ND		1.29		0.684		ND		5.4		ND		-	-
Methyl Isobutyl Ketone	3,000	31,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NS		ND		ND		-	-
Methylene chloride	60	14,000	**107**		**102**		39.6		33.6		16		**116**		**78**		31.5		19		57		36		36		33		55		27		25		**197**		53.8		**90**		**98.3**		55.2		0.234	-
Naphthalene	3	7,900	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
n-Butane	238,000	-	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		ND		NS		-	-
n-Propylbenzene	1,000	54,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		ND		NS		-	-
o-Xylene	100	22,000	ND		ND		17.8		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NS		0.378		ND		ND		ND		-	-
Styrene	1,000	17,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.515		ND		ND		ND		ND		-	-
tert-Butyl alcohol	720	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	-
Tetrachloroethylene	3.8	300	**118**		**88.9**		**88.5**		**111**		**69.1**		**80.8**		**133**		**75.1**		**16.1**		**51**		**120**		**120**		**84**		**59**		**87**		**78**		**71.2**		**51**		**41.1**		**97.6**		**61.7**		0.261	0.10
Tetrahydrofuran	350	30,000	ND		2.4		2.7		2.5		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.42		ND		14		ND		-	-
Toluene	5,000	37,000	ND		11.3		207		4		2.4		8.7		12.4		2.7		3.4		6.3		2.1		2.1		3.5		1.6		0.81		2.3		1.11		0.58		1.87		2.69		1.82		0.008	-
trans-1,2-Dichloroethene	63	-	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.53		ND		ND		1.24		ND		ND		ND		ND		-	0.00
Trichloroethene	0.2	20	**14.6**		**11.4**		**15.5**		**12.2**		**10.9**		**7.8**		**15.4**		**10.6**		**4.1**		**9.7**		**12**		**12**		**9.5**		**7.3**		**7.2**		**11**		**9.94**		**7.9**		**6.07**		**6.29**		**7.95**		0.034	0.00
Vinyl chloride	0.11	180,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.64		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	0.00

Notes:

1. AGC and SGC ambient exposure values obtained from NYSDEC DAR-1 AGC/SGC Tables, dated 7/14/16.

2. Maximum actual impacts based on the target VOC concentrations detected in the vapor sample collected from the SSDS (SP-303) in October 2023.

3. The air flow rate (cubic feet per minute [cfm]) used in the calculations is the average flow from the blower from the SSDS in 2025.

4. Emission Rate (lb/year) = air flow rate * VOC concentration (µg/m^3) * 1 m^3/35.32 ft^3 * 60 minutes/hour * 24 hours/day* 365 days/year * 1 g/10^6 µg * 1 lb/453.6 g.

5. Actual annual impact percentage of AGC calculated by following procedures described in NYSDEC DAR-1 using AERSCREEN dispersion modeling using target VOC concentrations.

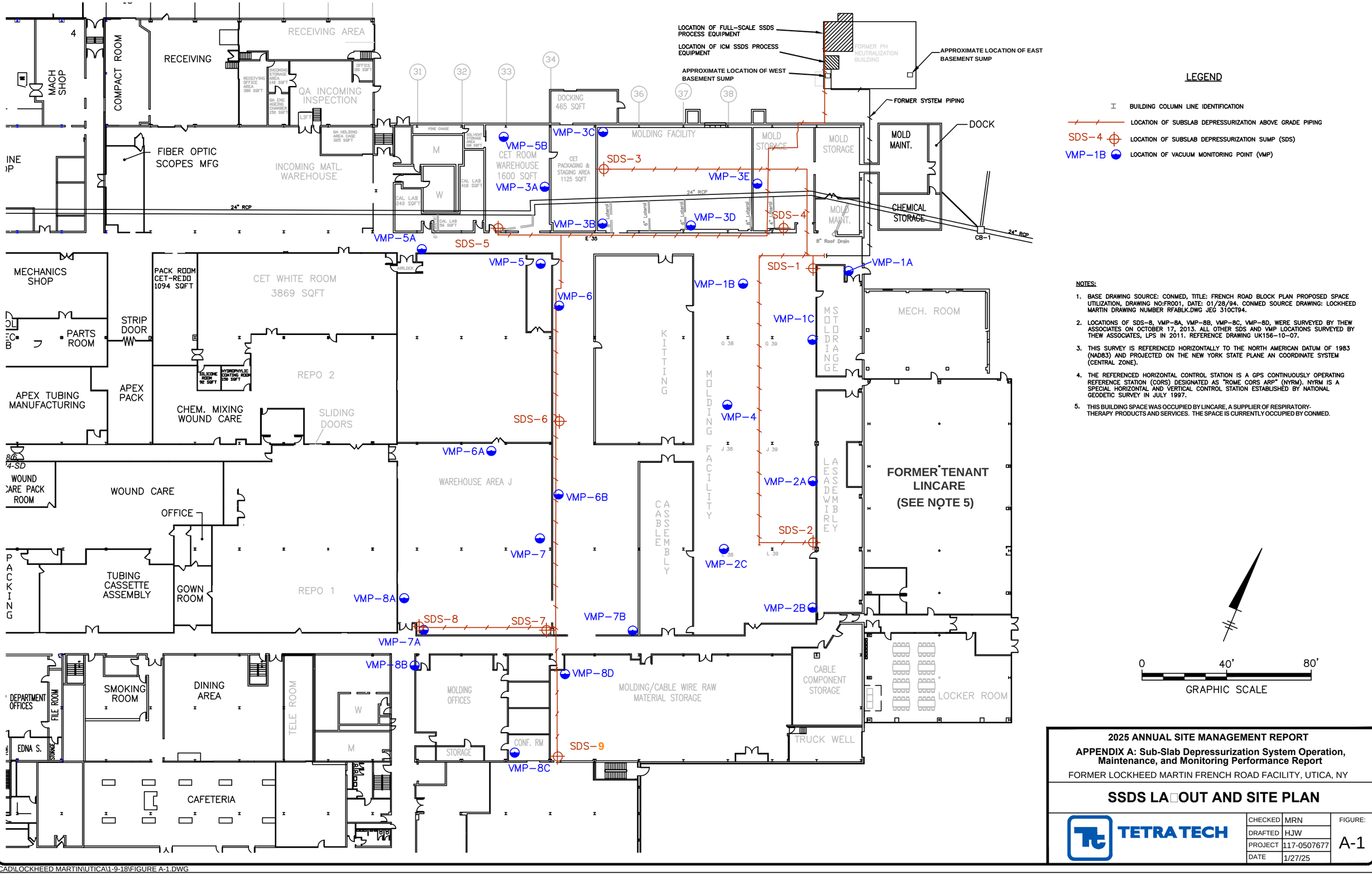
Definitions:

< - less than laboratory detection limit listed
"-" - indicates no guideline as been established
AGC - Annual Guideline Concentration (average based)
J - Indicates concentration is estimated
B - Indicates that the compound was also identified in the method blank and sample.
lb/day - pounds per day
ND - not detected above reporting limit
NS - parameter not analyzed
Q - data qualifier
SGC - Short-term Guideline Concentration
µg/m^3 - micrograms per cubic meter
Bold font indicates result exceeds AGC or SGC.

Table A-6
SDS/VMP Location and Instantaneous Differential Pressure Data
Former Lockheed Martin French Road Facility, Utica, New York

Sump	Associated Vapor Monitoring Points (VMPs)	Distance (feet)	Direction	2025 Average Vacuum (inches water column)
SDS-1	VMP-1A	17	E	0.007
	VMP-1B	33	W	0.234
	VMP-1C	33	S	0.101
	VMP-4	77	S	0.056
SDS-2	VMP-2A	29	N	0.059
	VMP-2B	31	S	0.105
	VMP-2C	42	W	0.104
SDS-3	VMP-3C	17	N	0.050
	VMP-3B	26	S	0.015
	VMP-3D	49	SE	0.029
SDS-4	VMP-3E	24	NW	0.019
SDS-5	VMP-5	26	SE	0.433
	VMP-3A	29	NE	0.125
	VMP-5A	38	W	0.048
	VMP-5B	43	N	0.026
SDS-6	VMP-6A	35	W	0.281
	VMP-6B	35	S	0.111
	VMP-6	55	N	0.107
SDS-7	VMP-7	44	N	0.342
	VMP-7B	41	E	0.136
SDS-8	VMP-7A	3	S	8.019
	VMP-8A	15	NW	0.962
	VMP-8B	19	S	6.912
SDS-9	VMP-8C	15	W	0.061
	VMP-8D	40	N	0.099

FIGURES



LEGEND

- BUILDING COLUMN LINE IDENTIFICATION
- LOCATION OF SUBSLAB DEPRESSURIZATION ABOVE GRADE PIPING
- SDS-4 — LOCATION OF SUBSLAB DEPRESSURIZATION SUMP (SDS)
- VMP-1B — LOCATION OF VACUUM MONITORING POINT (VMP)

NOTES:

1. BASE DRAWING SOURCE: CONMED, TITLE: FRENCH ROAD BLOCK PLAN PROPOSED SPACE UTILIZATION, DRAWING NO:FR001, DATE: 01/28/94. CONMED SOURCE DRAWING: LOCKHEED MARTIN DRAWING NUMBER RFABLK.DWG JEG 310CT94.
2. LOCATIONS OF SDS-8, VMP-8A, VMP-8B, VMP-8C, VMP-8D, WERE SURVEYED BY THEW ASSOCIATES ON OCTOBER 17, 2013. ALL OTHER SDS AND VMP LOCATIONS SURVEYED BY THEW ASSOCIATES, LPS IN 2011. REFERENCE DRAWING UK156-10-07.
3. THIS SURVEY IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE AN COORDINATE SYSTEM (CENTRAL ZONE).
4. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
5. THIS BUILDING SPACE WAS OCCUPIED BY LINCARE, A SUPPLIER OF RESPIRATORY-THERAPY PRODUCTS AND SERVICES. THE SPACE IS CURRENTLY OCCUPIED BY CONMED.

0 40' 80'

GRAPHIC SCALE

2025 ANNUAL SITE MANAGEMENT REPORT

APPENDIX A: Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report

FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY, UTICA, NY

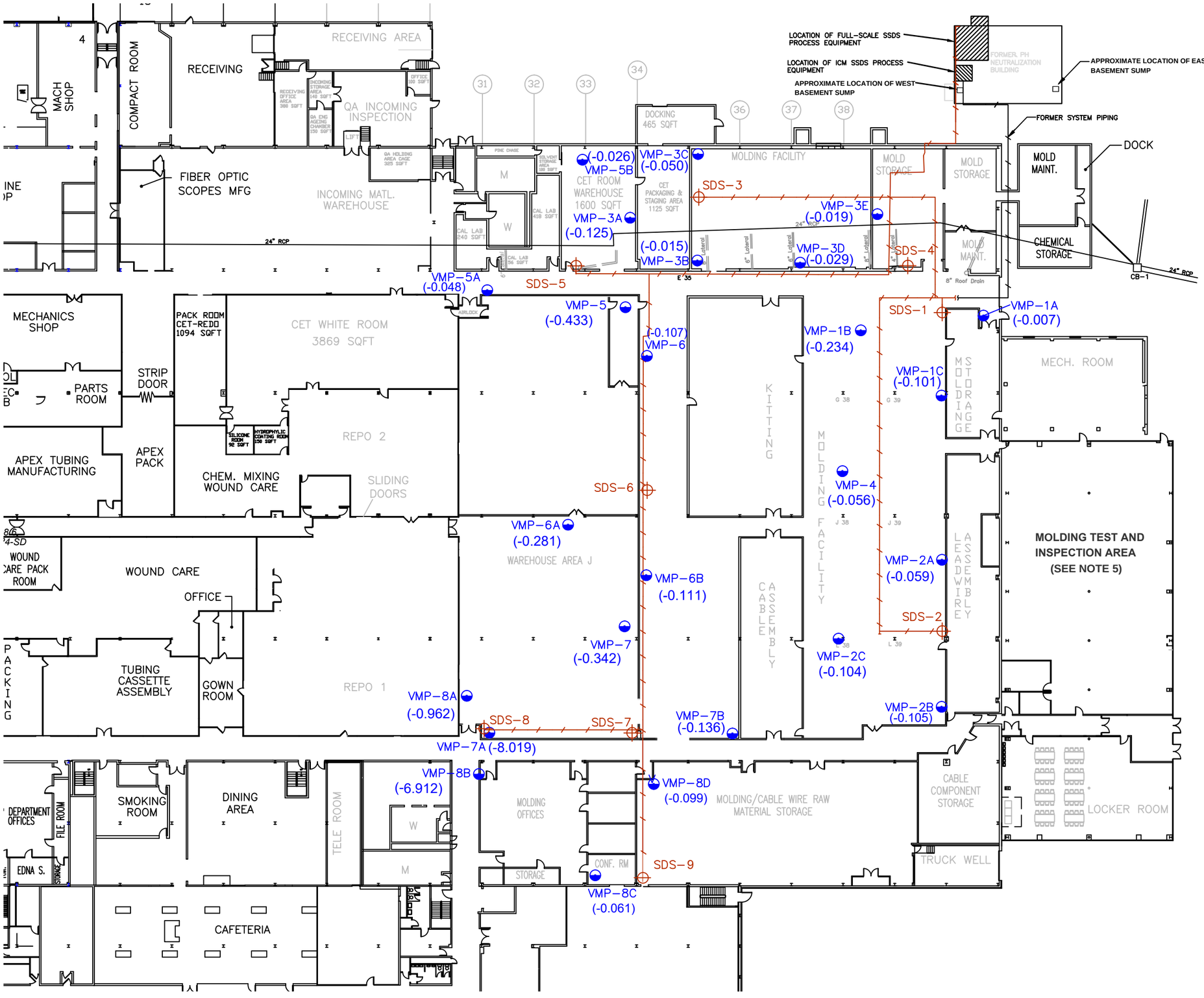
SSDS LAYOUT AND SITE PLAN

TETRA TECH

CHECKED	MRN
DRAFTED	HJW
PROJECT	117-0507677
DATE	1/27/25

FIGURE: A-1

S:\CAD\LOCKHEED MARTIN\UTICA\1-9-18\FIGURE A-1.DWG



LEGEND

- I — BUILDING COLUMN LINE IDENTIFICATION
- LOCATION OF SUBSLAB DEPRESSURIZATION ABOVE GRADE PIPING
- SDS-4 — LOCATION OF SUBSLAB DEPRESSURIZATION SUMP (SDS)
- VMP-1B — LOCATION OF VACUUM MONITORING POINT (VMP)
- (-0.030) — AVERAGE INSTANTANEOUS DIFFERENTIAL PRESSURE (IN W.C.) RECORDED AT THE VMP LOCATION (CRITERIA IS -0.004 IN W.C.)

NOTES:

1. BASE DRAWING SOURCE: CONMED, TITLE: FRENCH ROAD BLOCK PLAN PROPOSED SPACE UTILIZATION, DRAWING NO:FR001, DATE: 01/28/94. CONMED SOURCE DRAWING: LOCKHEED MARTIN DRAWING NUMBER RFABLK.DWG JEG 31OCT94.
2. LOCATIONS OF SDS-8, VMP-8A, VMP-8B, VMP-8C, VMP-8D, WERE SURVEYED BY THEW ASSOCIATES ON OCTOBER 17, 2013. ALL OTHER SDS AND VMP LOCATIONS SURVEYED BY THEW ASSOCIATES, LPS IN 2011. REFERENCE DRAWING UK156-10-07.
3. THIS SURVEY IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE AN COORDINATE SYSTEM (CENTRAL ZONE).
4. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
5. THIS BUILDING SPACE WAS OCCUPIED BY LINCARE, A SUPPLIER OF RESPIRATORY-THERAPY PRODUCTS AND SERVICES. THE SPACE IS CURRENTLY BEING USED BY CONMED.

0 40' 80'

GRAPHIC SCALE

2025 ANNUAL SITE MANAGEMENT REPORT

APPENDIX A: Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report

FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY, UTICA, NY

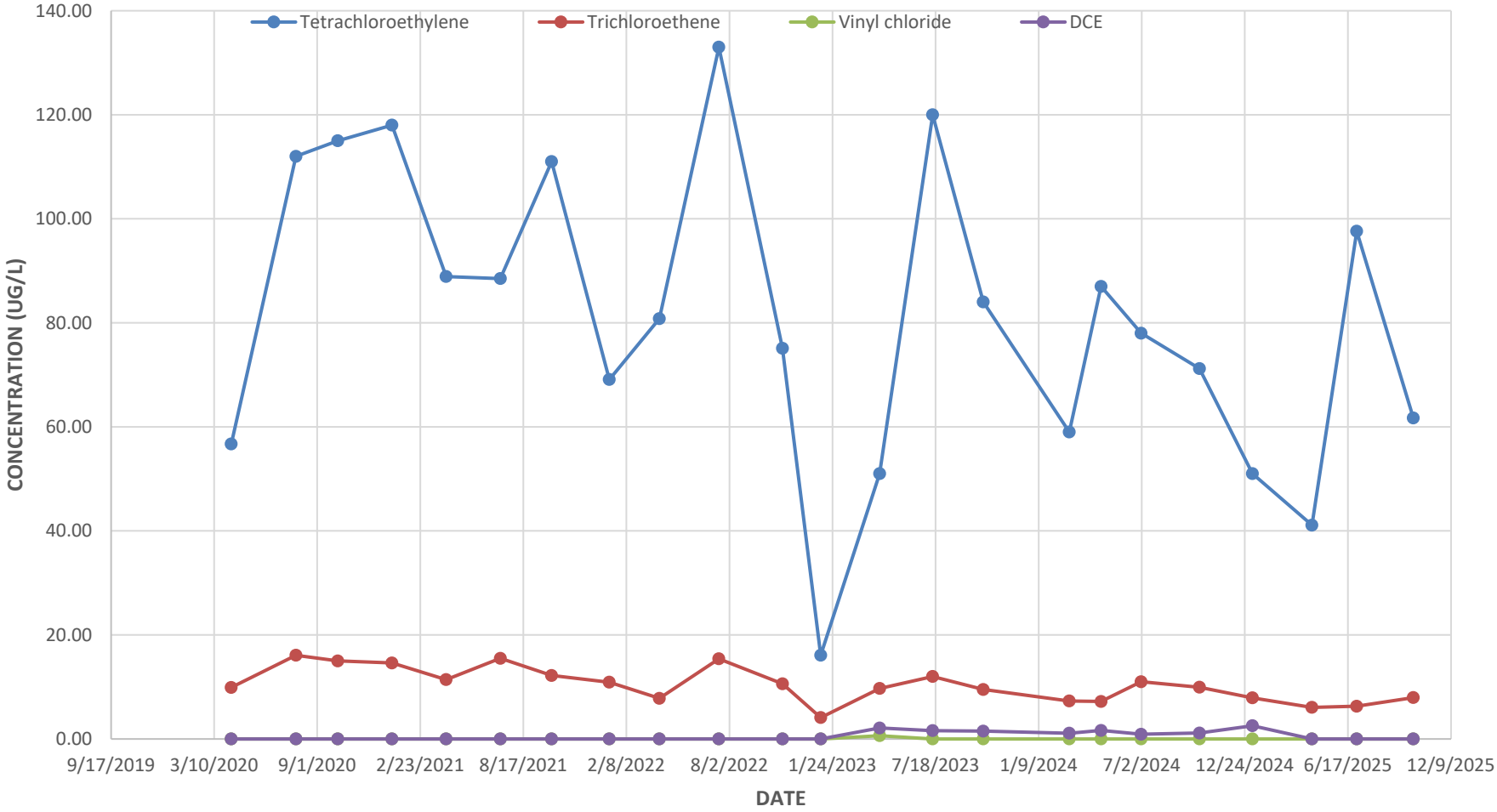
AVERAGE DIFFERENTIAL PRESSURE AT VACUUM MONITORING POINTS

TETRA TECH

CHECKED	MRN
DRAFTED	HJW
PROJECT	117-0507677
DATE	1/27/25

FIGURE: A-2

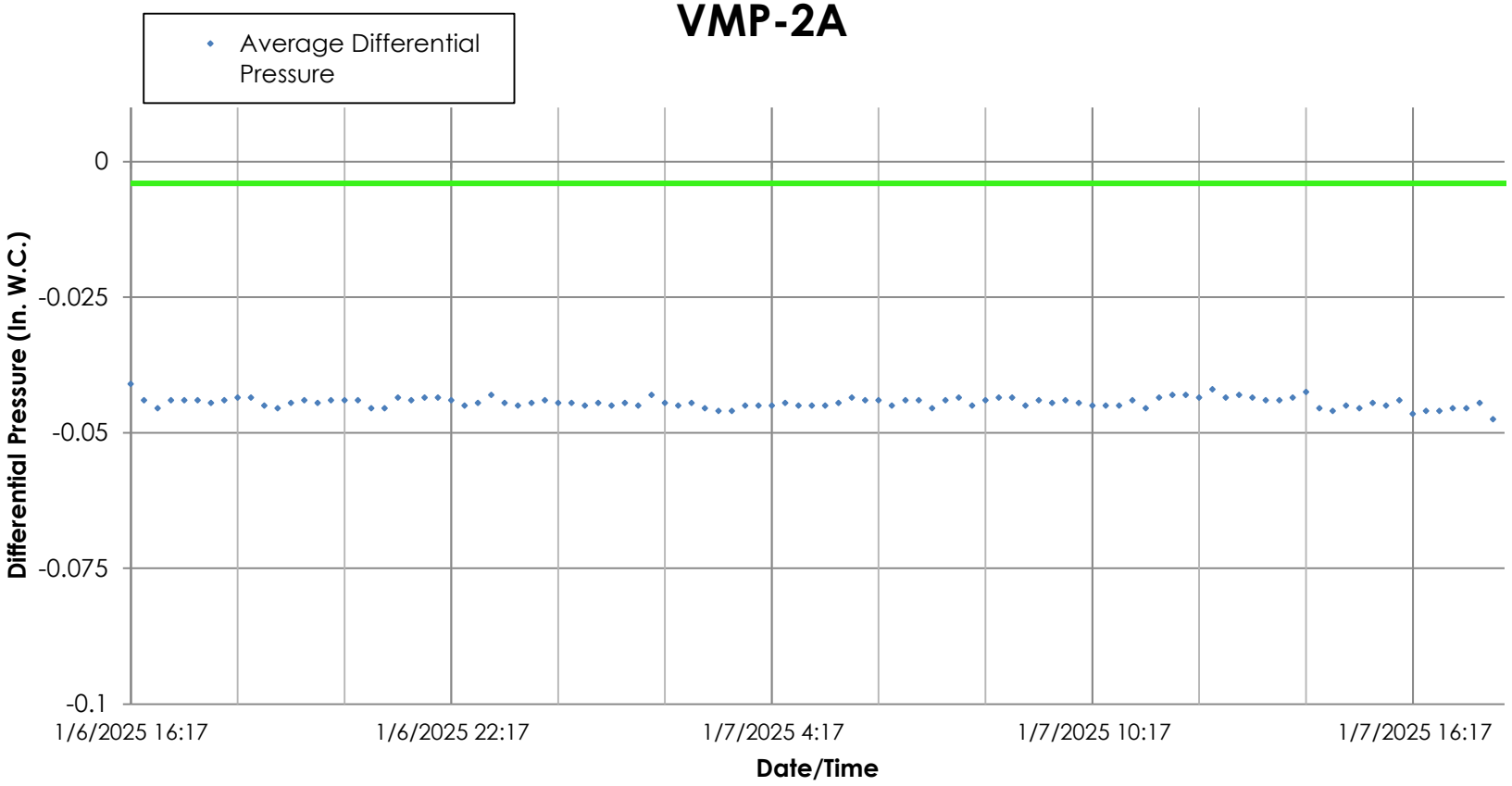
S:\CAD\LOCKHEED MARTIN\UTICA\1-9-18\FIGURE A-2.DWG



Notes:
PCE = Tetrachloroethylene
TCE = Trichloroethene
VC = Vinyl chloride
DCE (total) = combined concentrations of cis-1,2-dichloroethene, trans-1,2-dichloroethene, and 1,1-dichloroethene

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-3
Extracted Vapor
Selected Analytes Concentration vs. Time

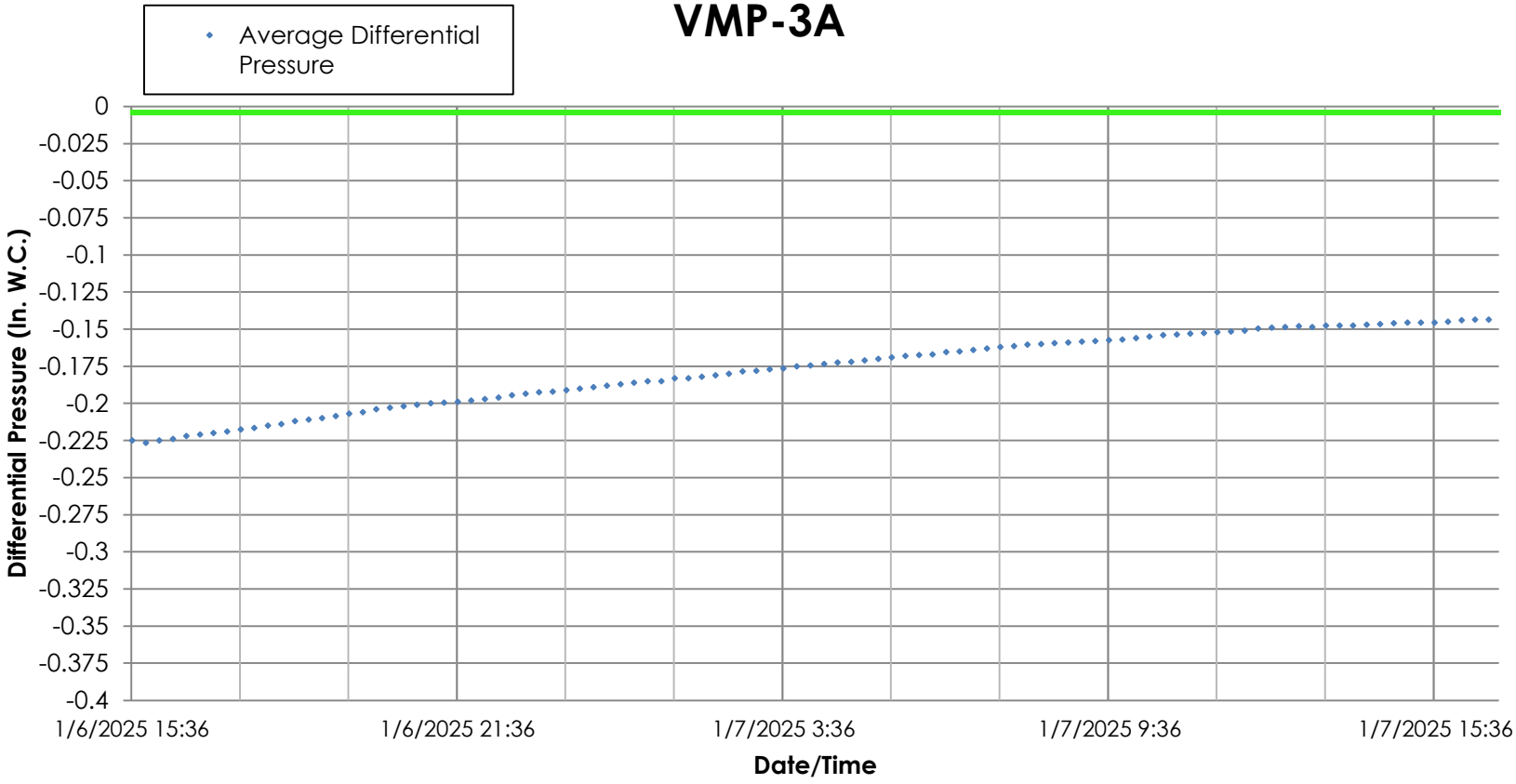


Notes:

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-4
Vacuum Monitoring Point VMP-2A Differential Pressure Data
January 6-7, 2025

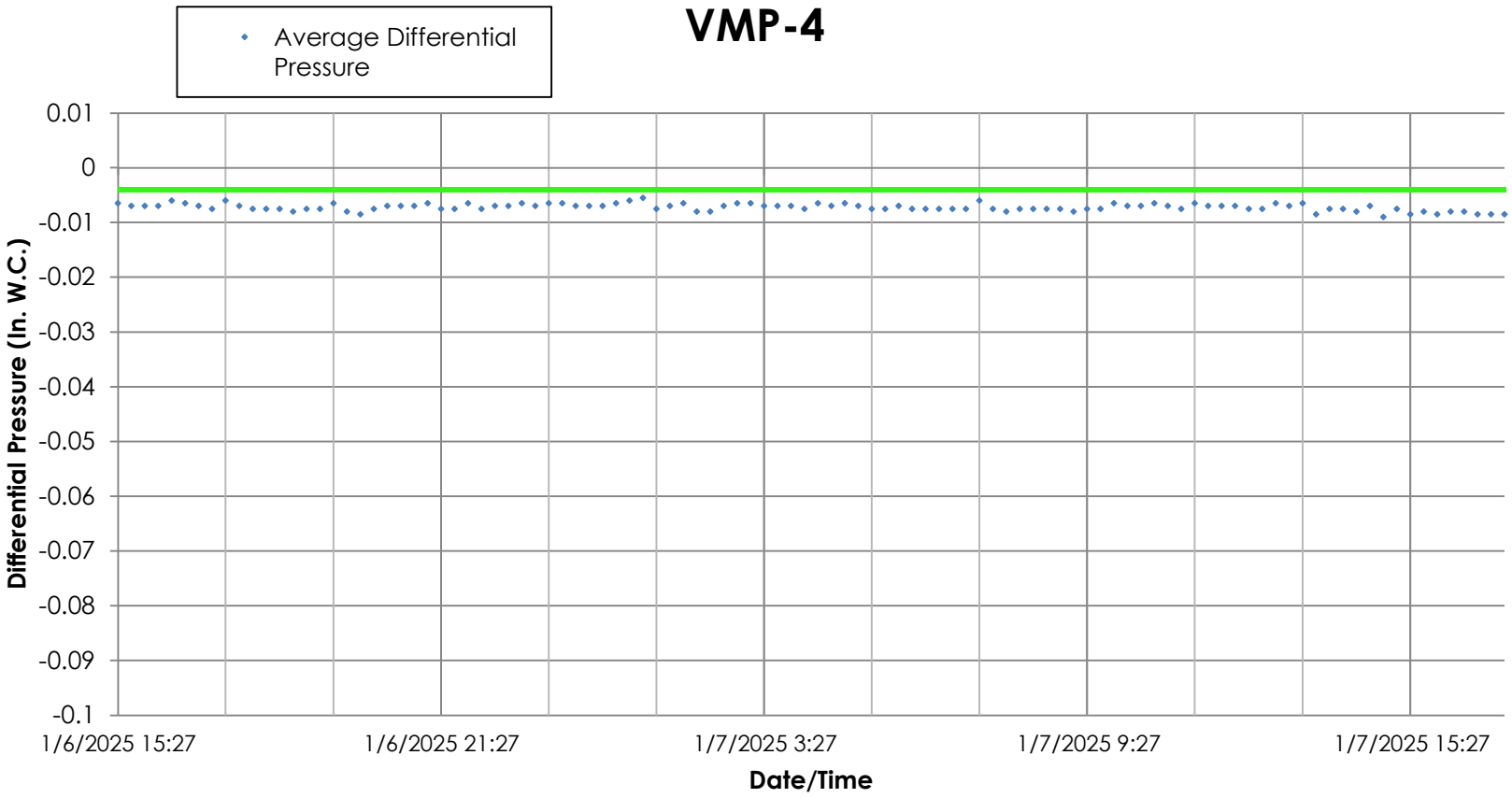


Notes:

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-5
Vacuum Monitoring Point VMP-3A
Differential Pressure Data
January 6-7, 2025

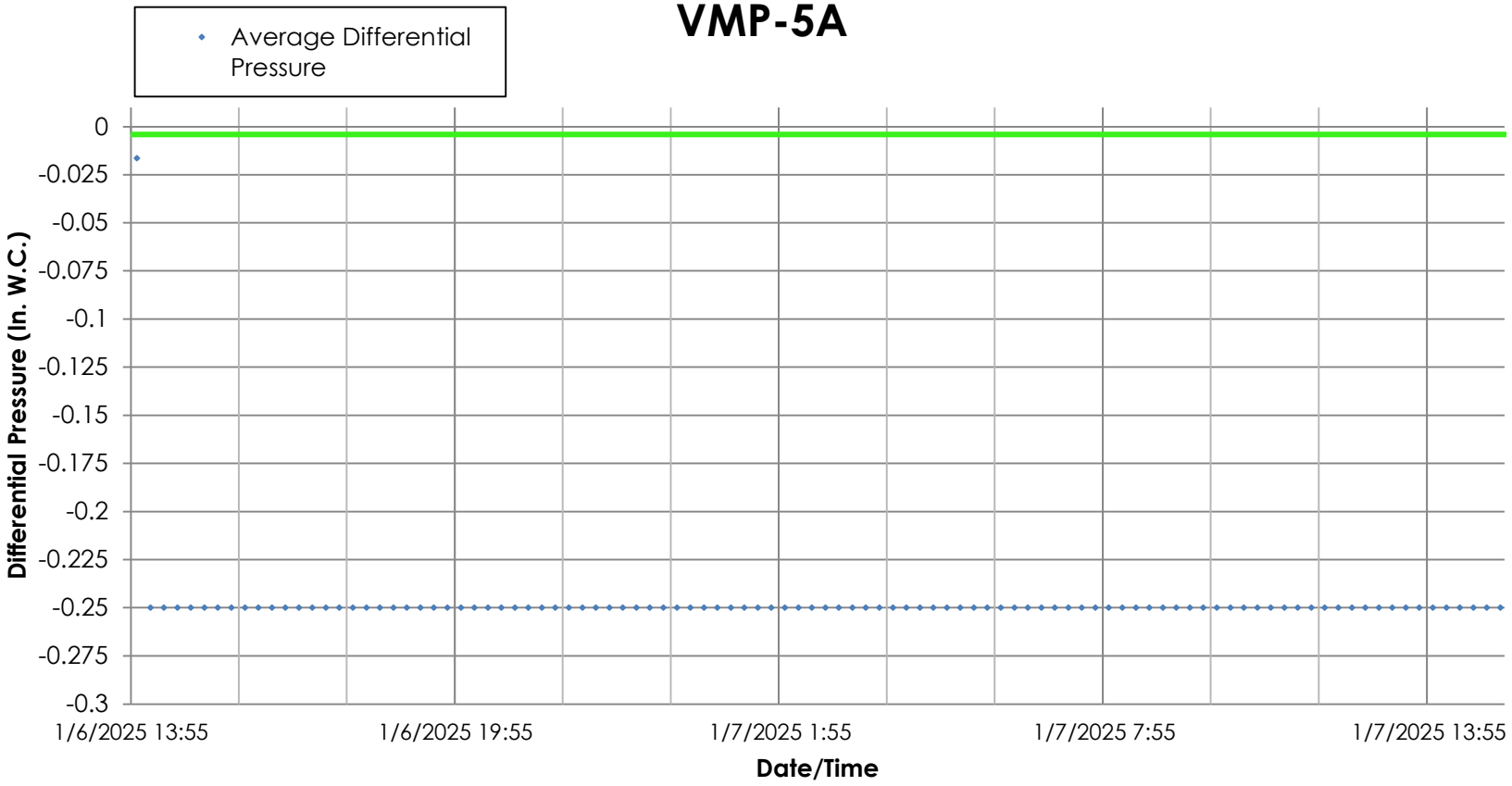


Notes:

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-6
Vacuum Monitoring Point VMP-4
Differential Pressure Data
January 6-7, 2025



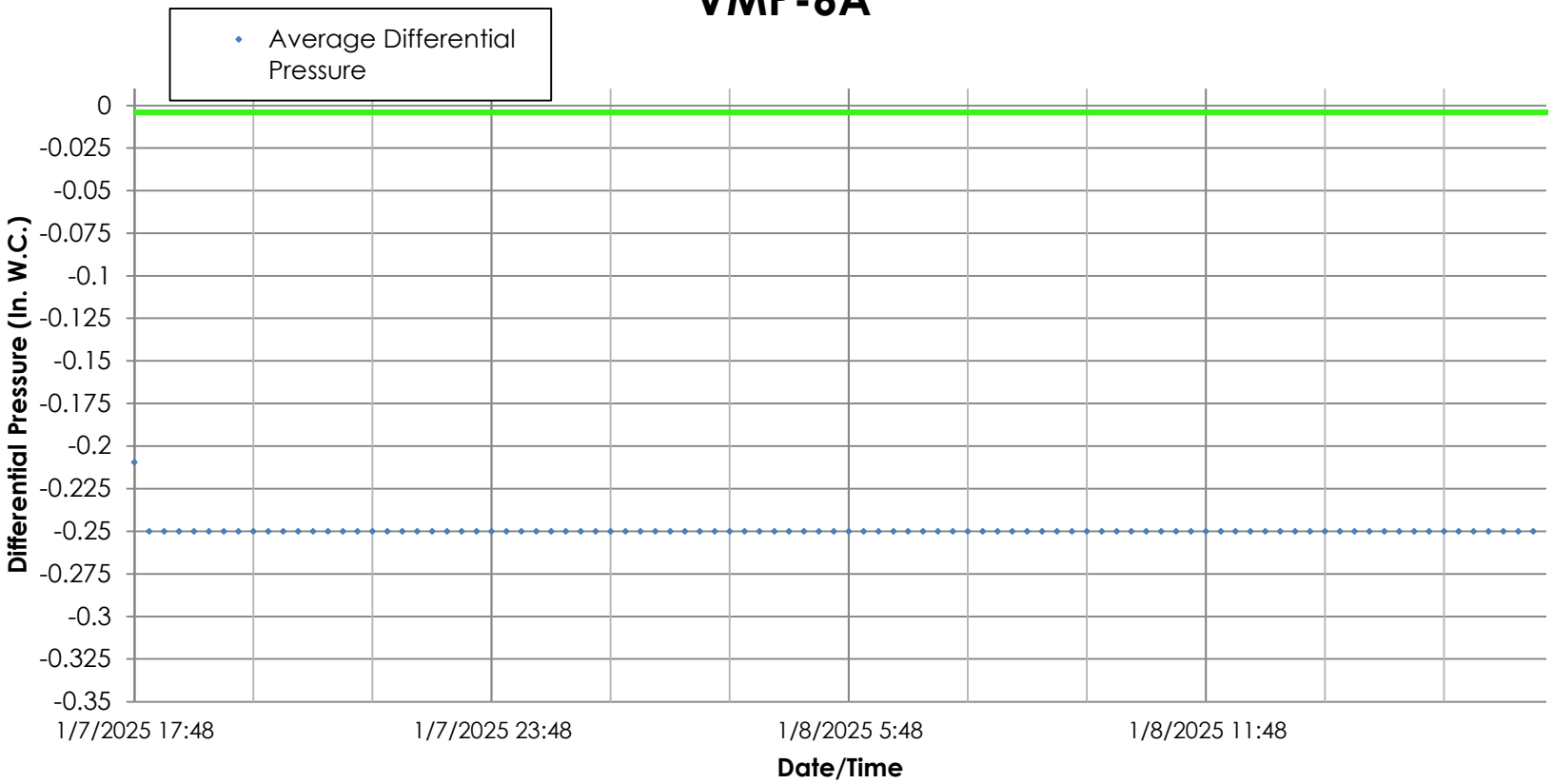
Notes

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-7
Vacuum Monitoring Point VMP-5A
Differential Pressure Data
January 6-7, 2025

VMP-6A

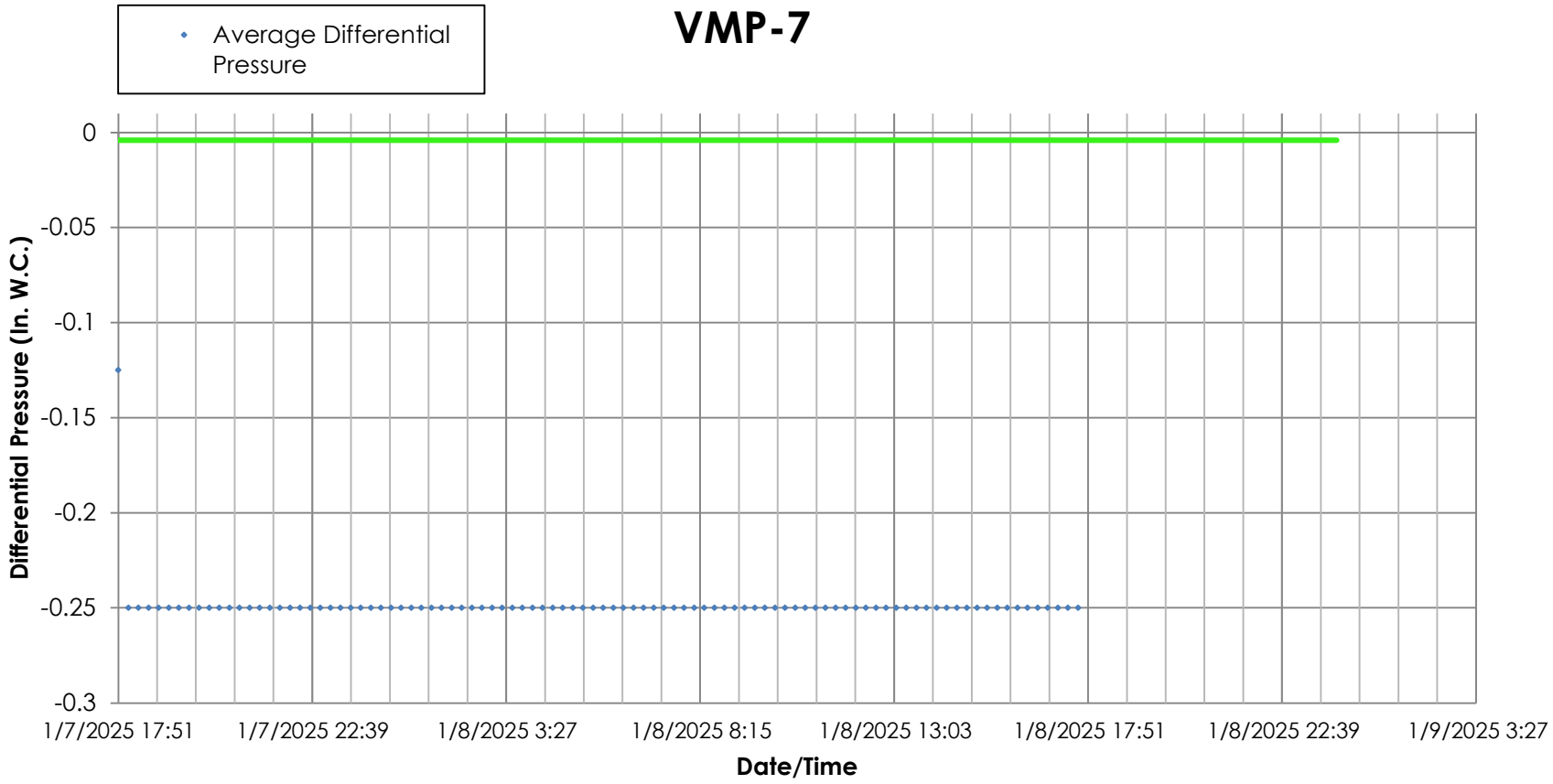


Notes:

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-8
Vacuum Monitoring Point VMP-6A
Differential Pressure Data
January 6-7, 2025



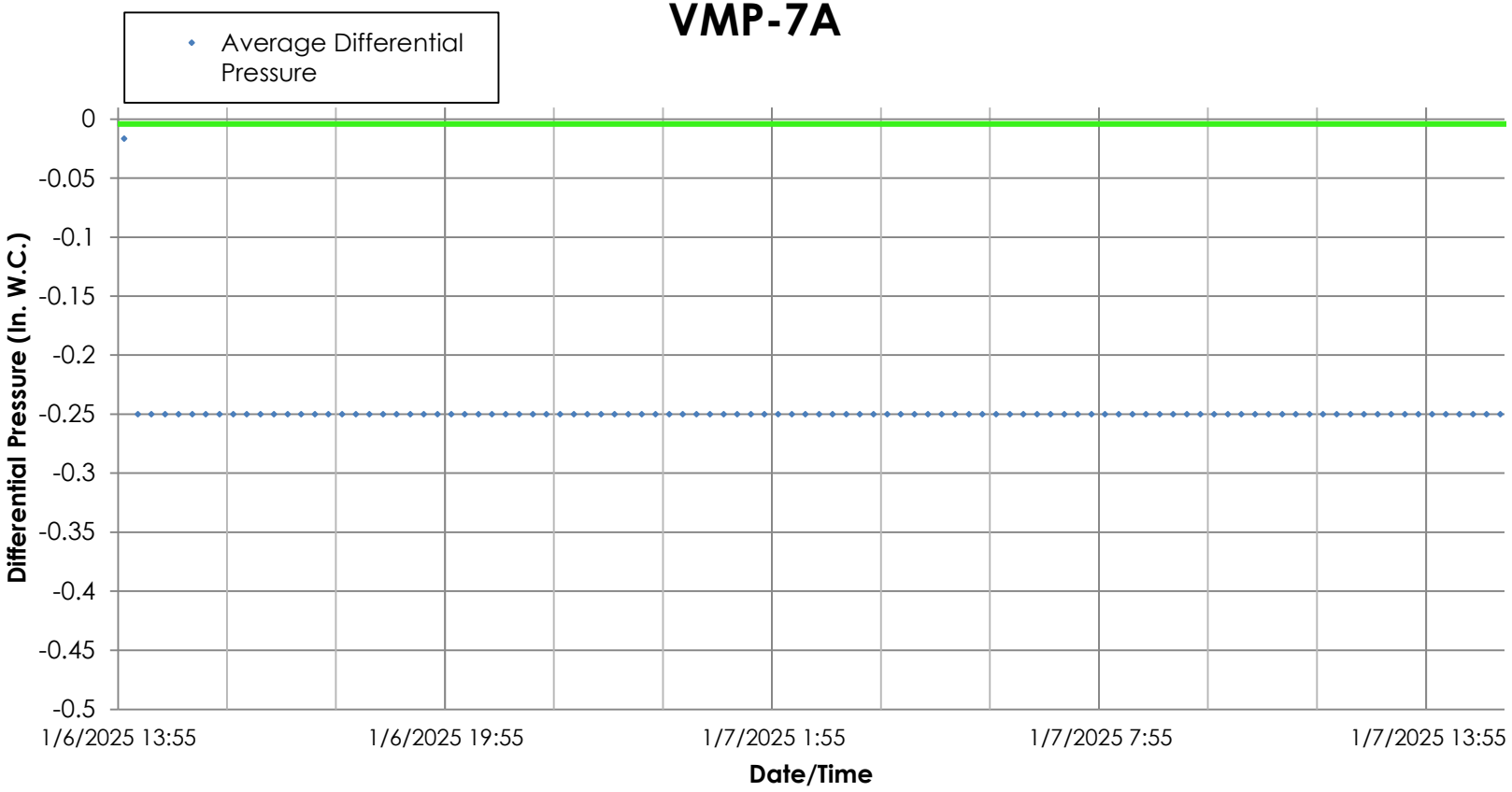
Notes:

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report

Former Lockheed Martin French Road Facility, Utica, NY

Figure A-9
Vacuum Monitoring Point VMP-7
Differential Pressure Data
January 7-9, 2025

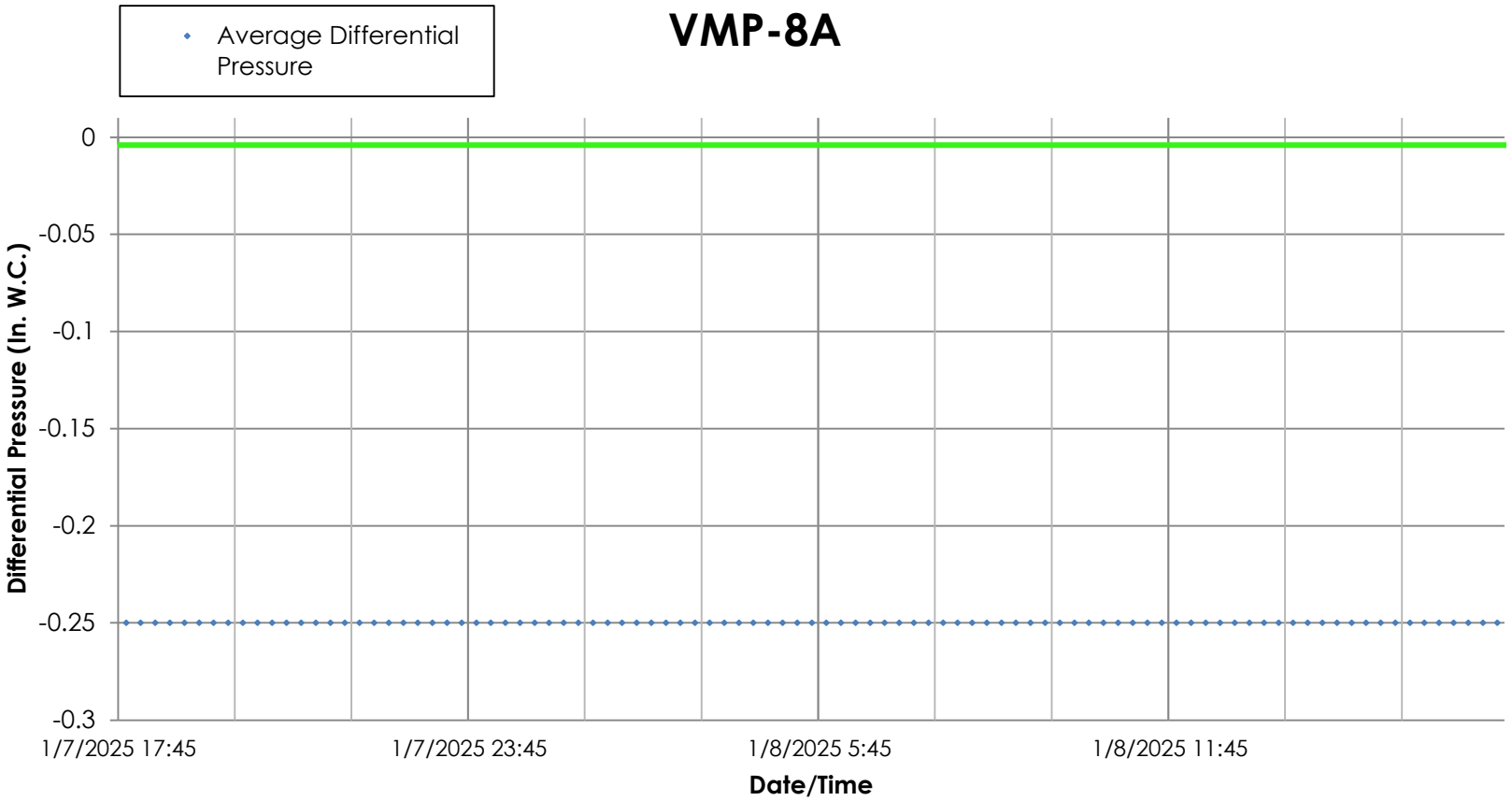


Notes

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former Lockheed Martin French Road Facility, Utica, NY

Figure A-10
Vacuum Monitoring Point VMP-7A
Differential Pressure Data
January 6-7, 2025



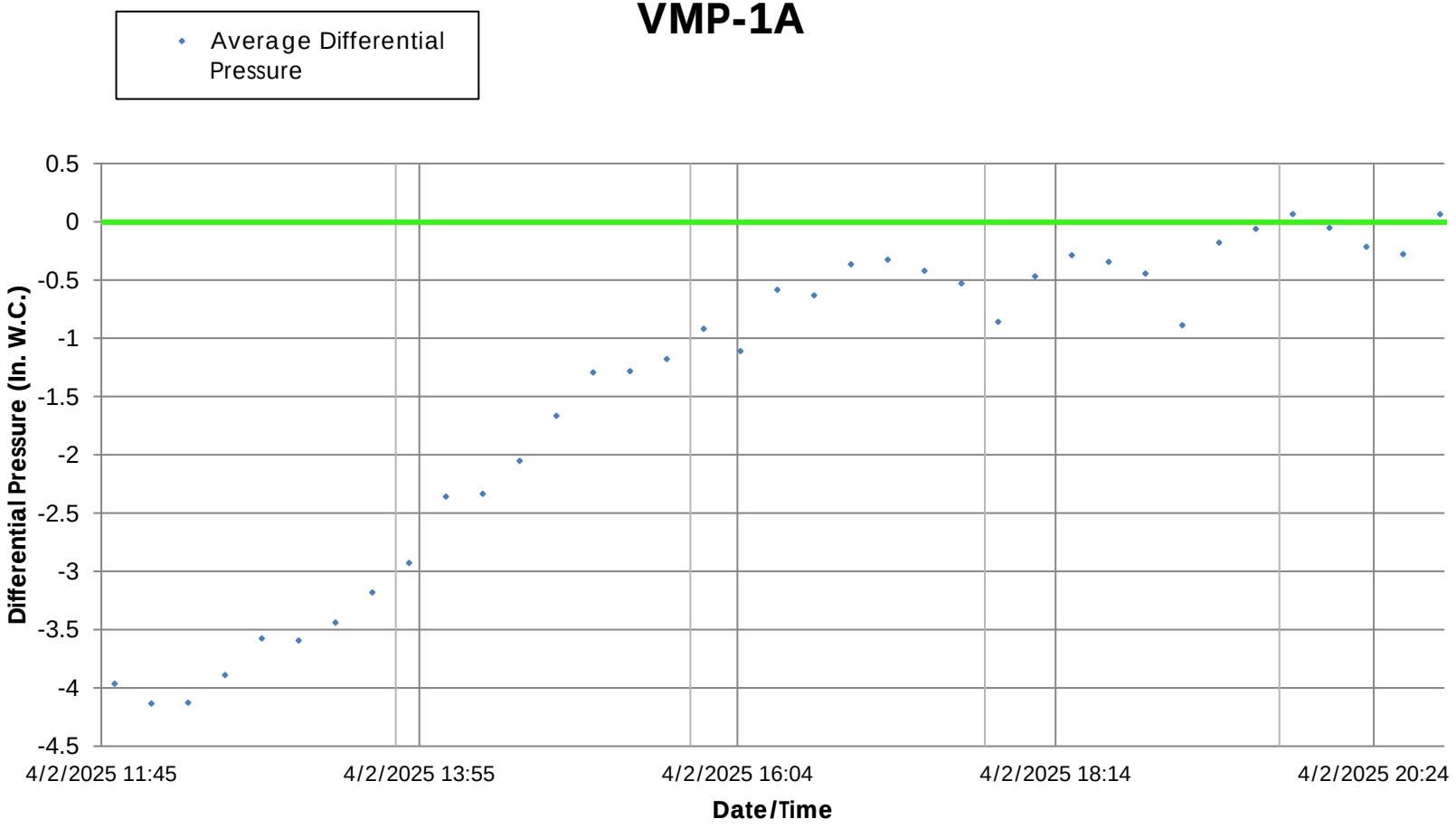
Notes

1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value

Appendix A: Sub-Slab Depressurization System Operation, Maintenance, and Monitoring Performance Report

Former Lockheed Martin French Road Facility, Utica, NY

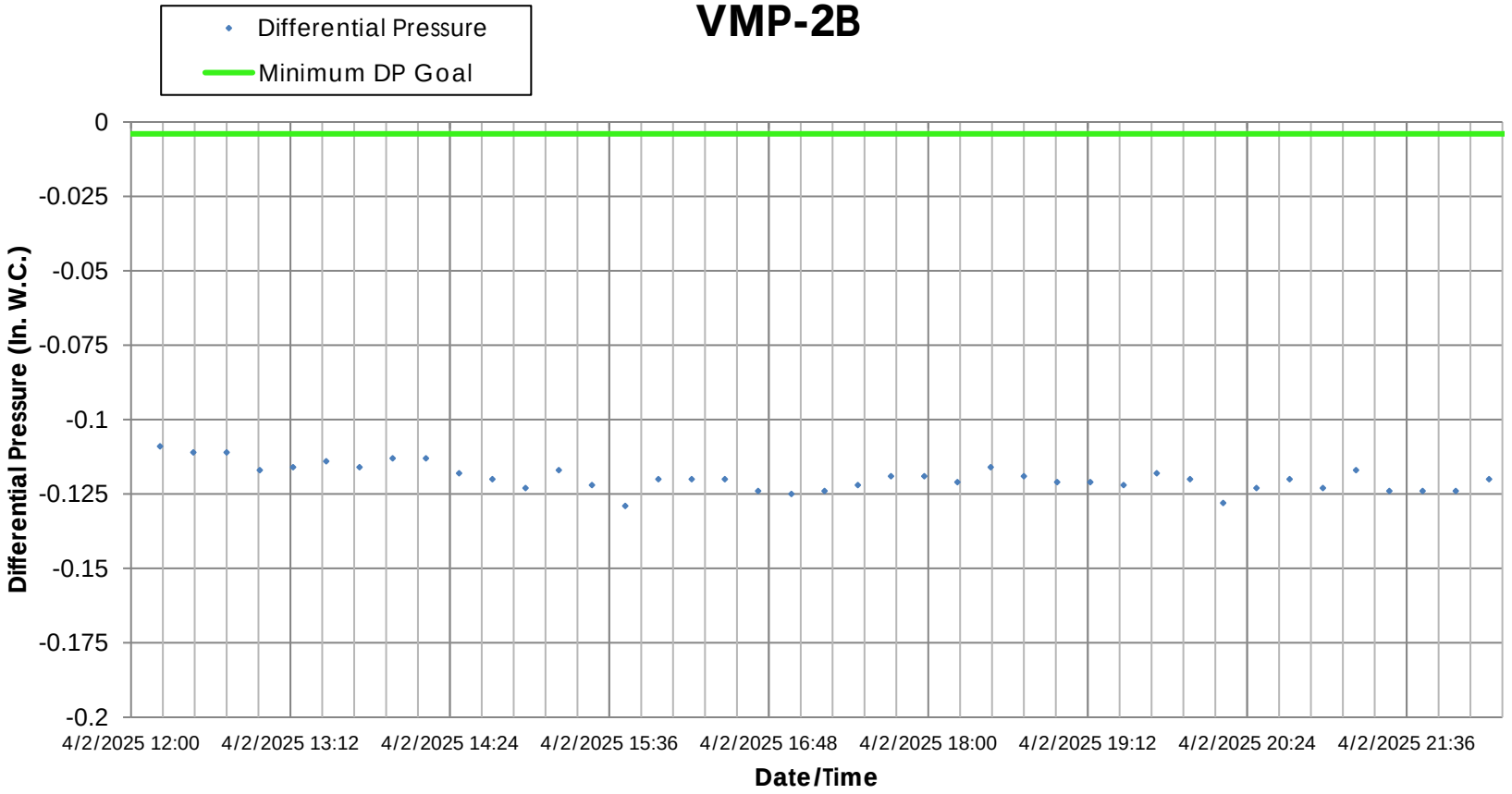
Figure A-11
Vacuum Monitoring Point VMP-8A
Differential Pressure Data
January 7-8, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.
3. Equipment failure occured and 24 hours of logging was not recorded.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

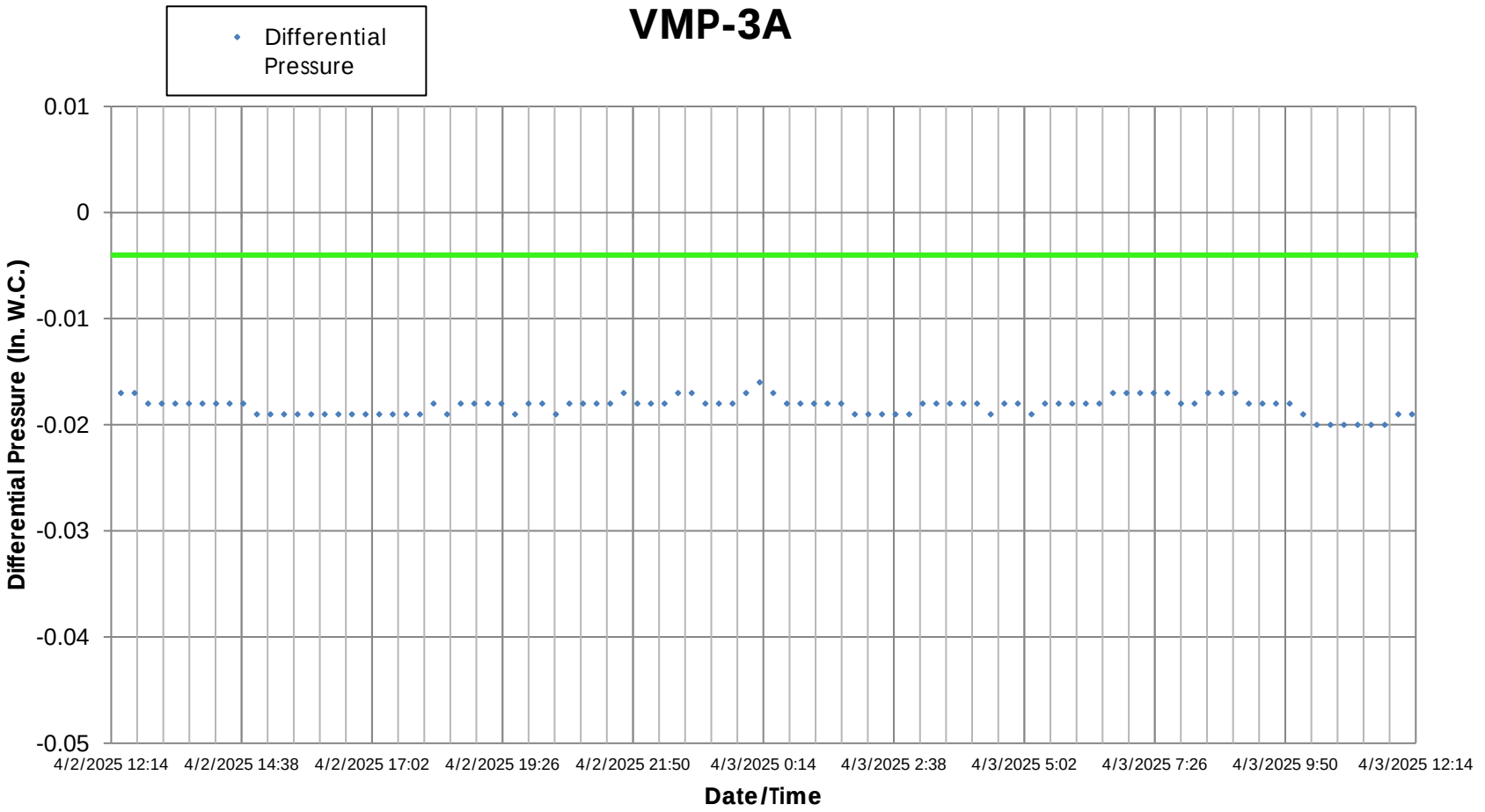
Figure A-12
Vacuum Monitoring Point VMP-1A
Differential Pressure Data
April 2, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

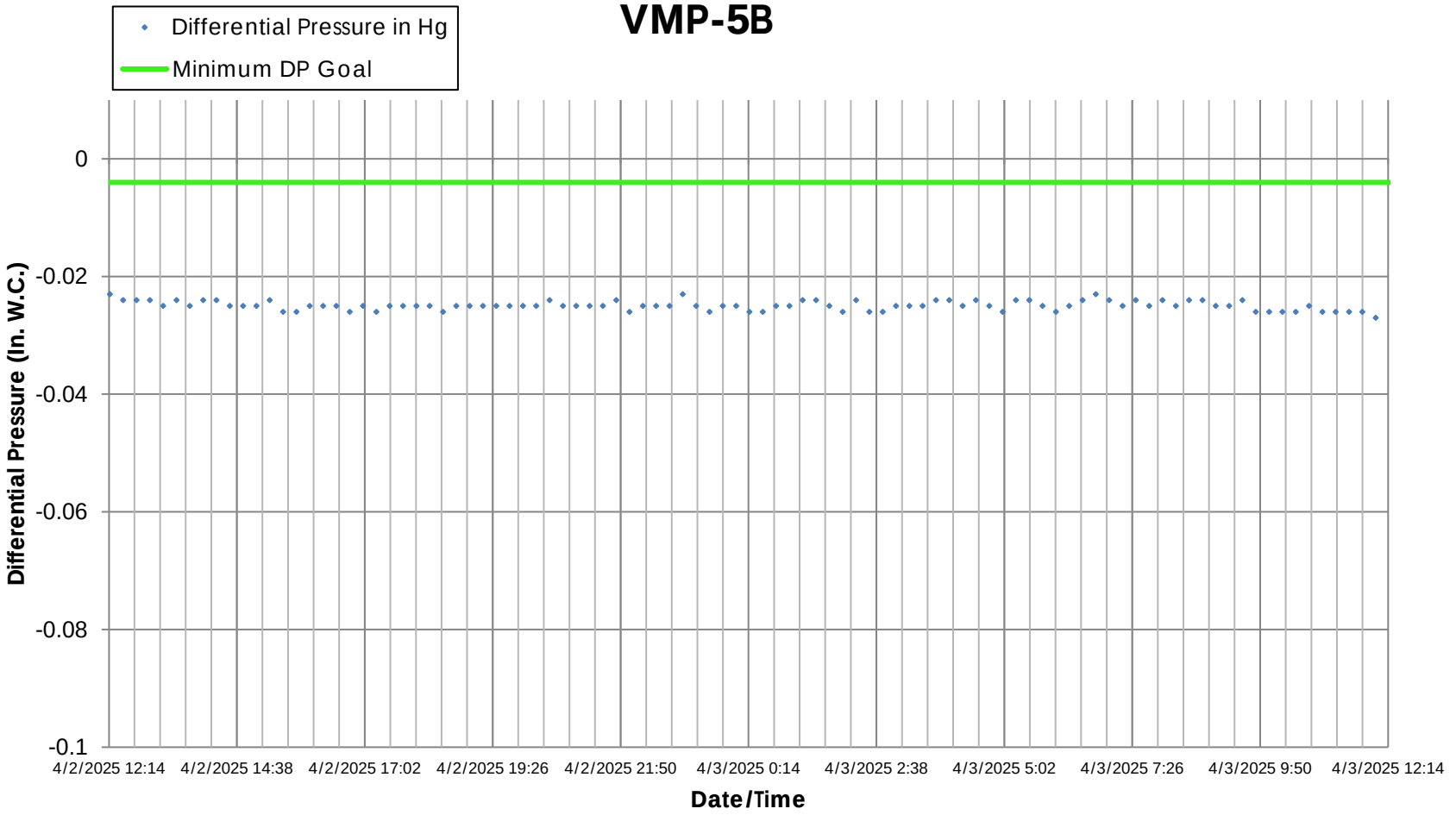
Figure A-13
Vacuum Monitoring Point VMP-2B
Differential Pressure Data
April 2, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

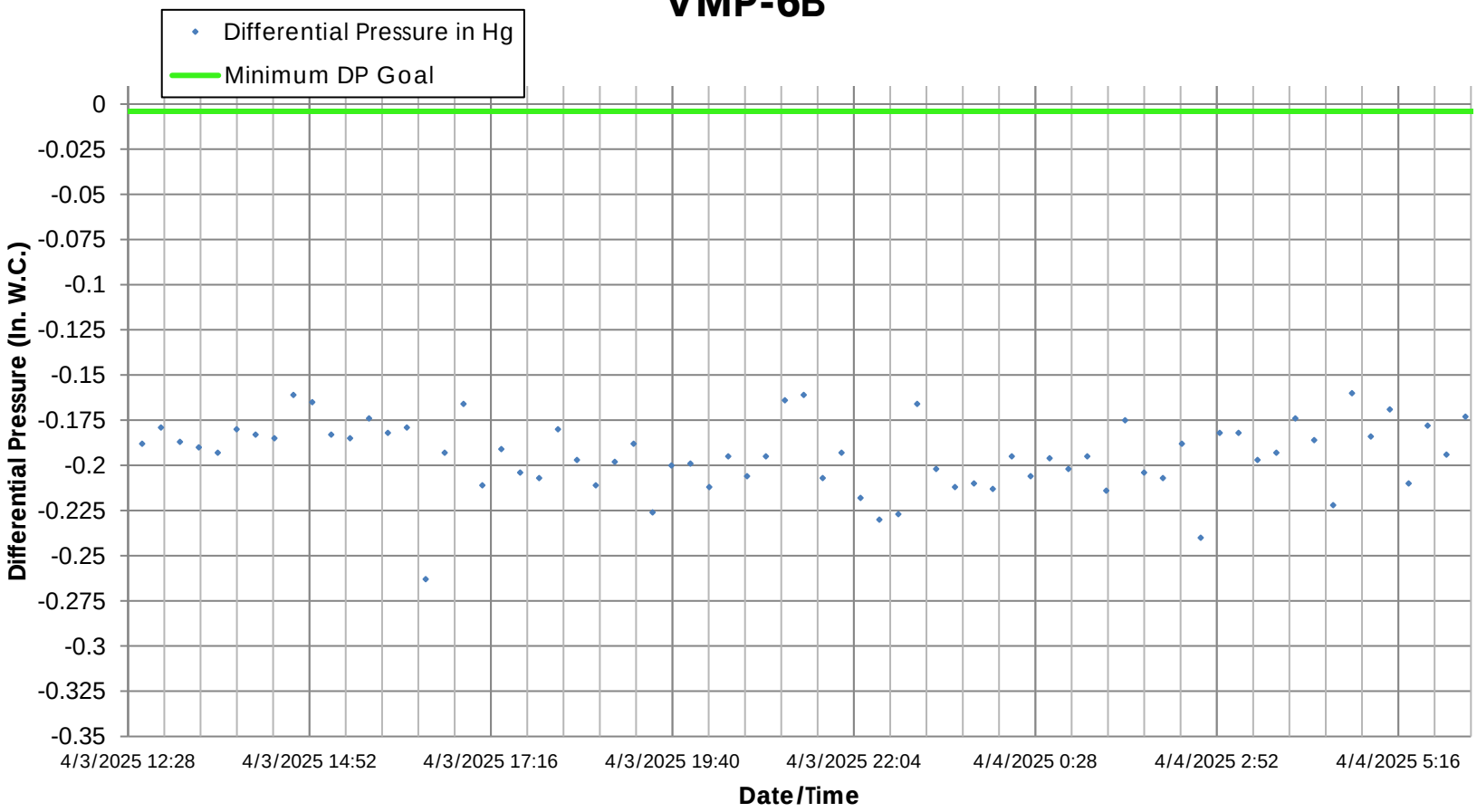
Figure A-14
Vacuum Monitoring Point VMP-3A
Differential Pressure Data
April 2-3, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

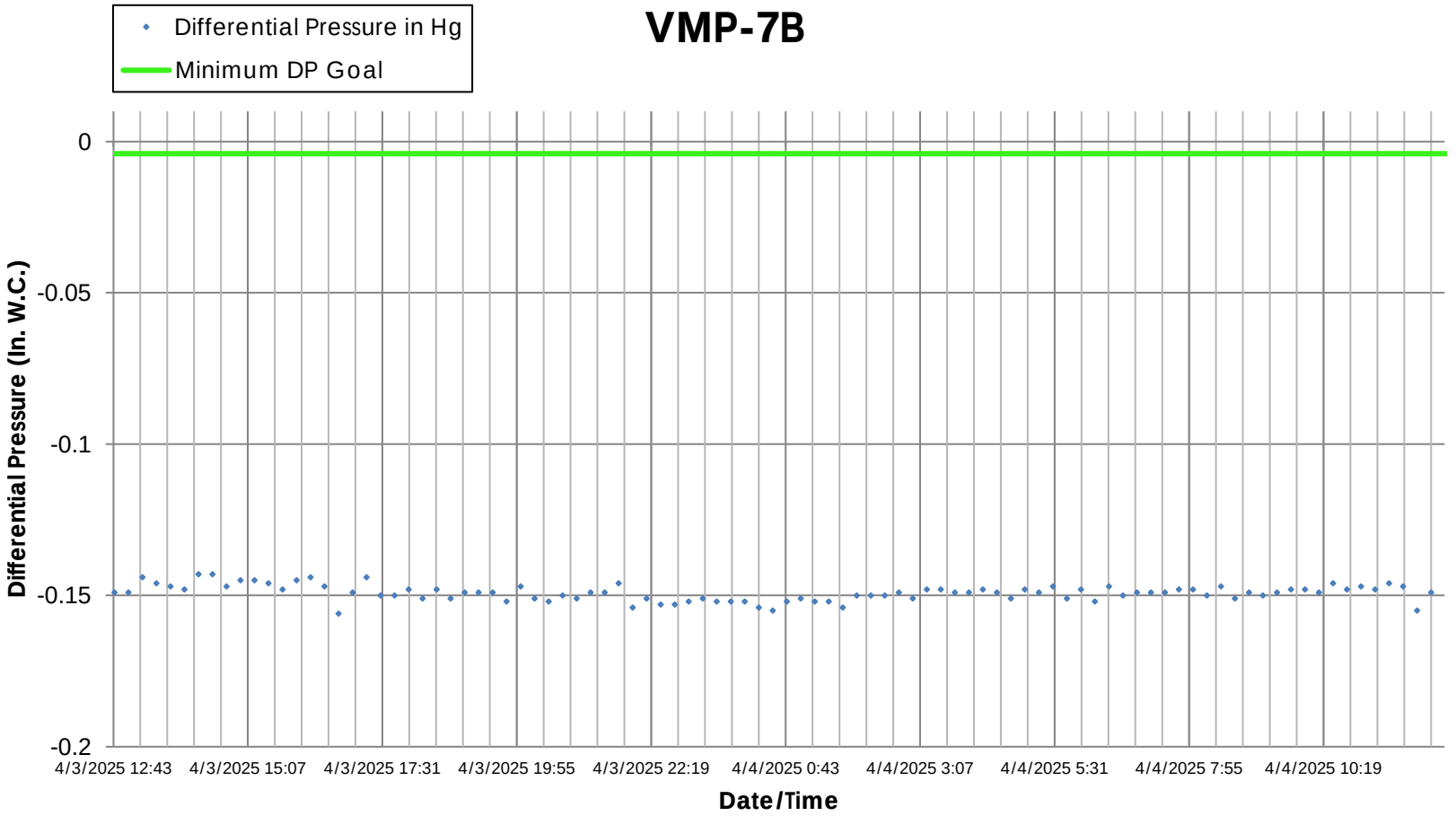
Figure A-15
Vacuum Monitoring Point VMP-5B
Differential Pressure Data
April 2-3, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

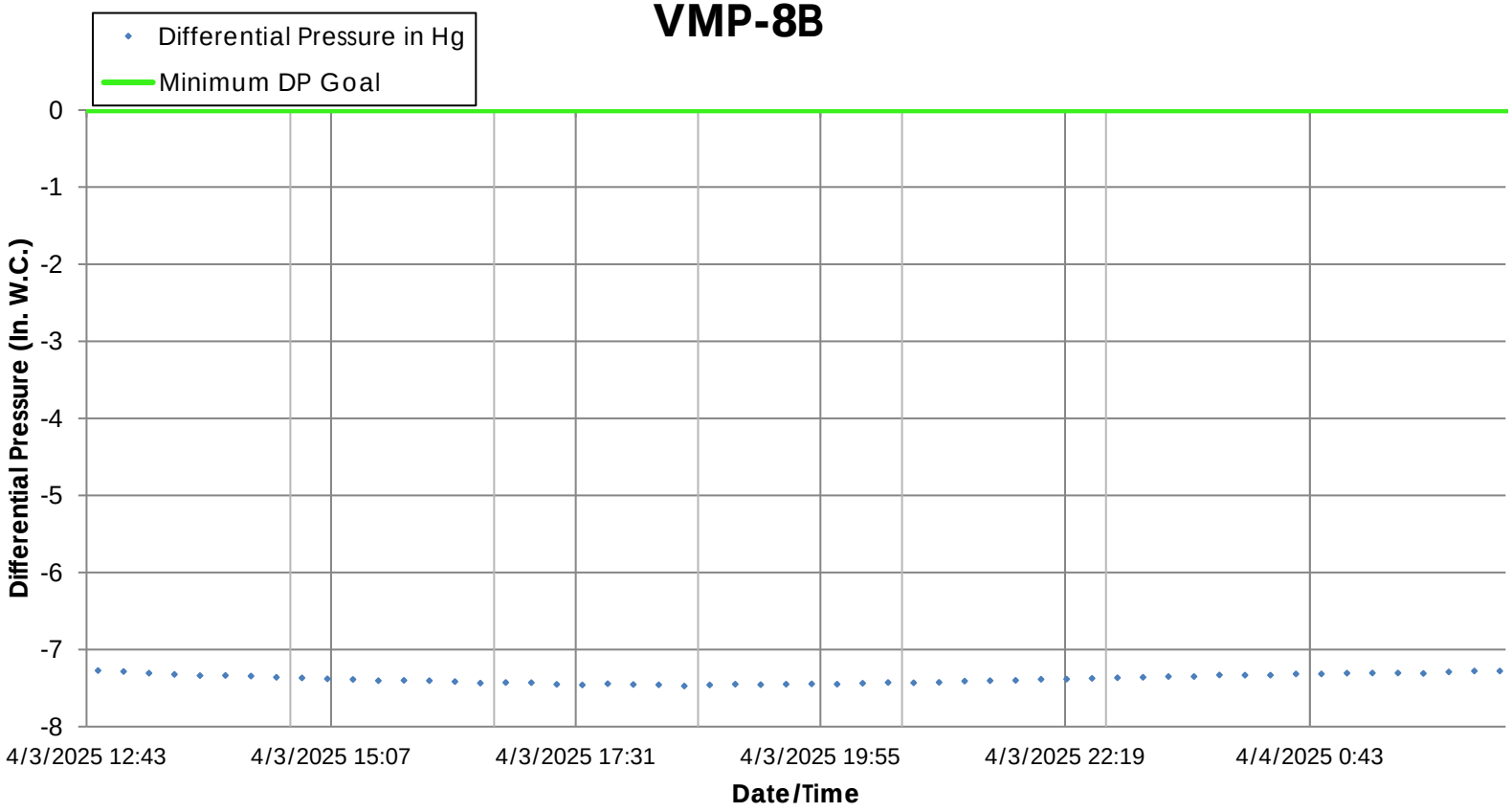
Figure A-16
Vacuum Monitoring Point VMP-6B
Differential Pressure Data
April 3-4, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

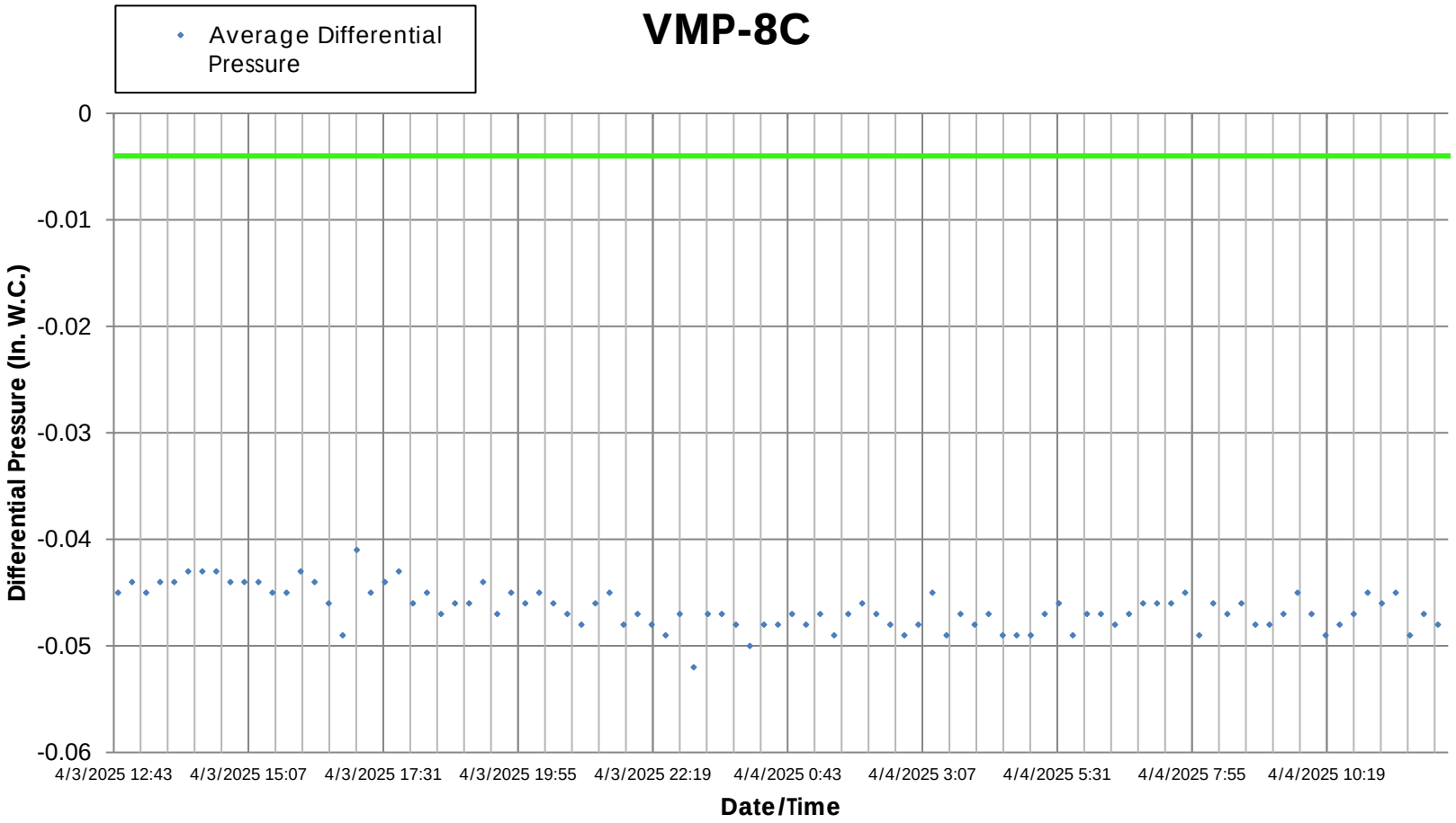
Figure A-17
Vacuum Monitoring Point VMP-7B
Differential Pressure Data
April 3-4, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

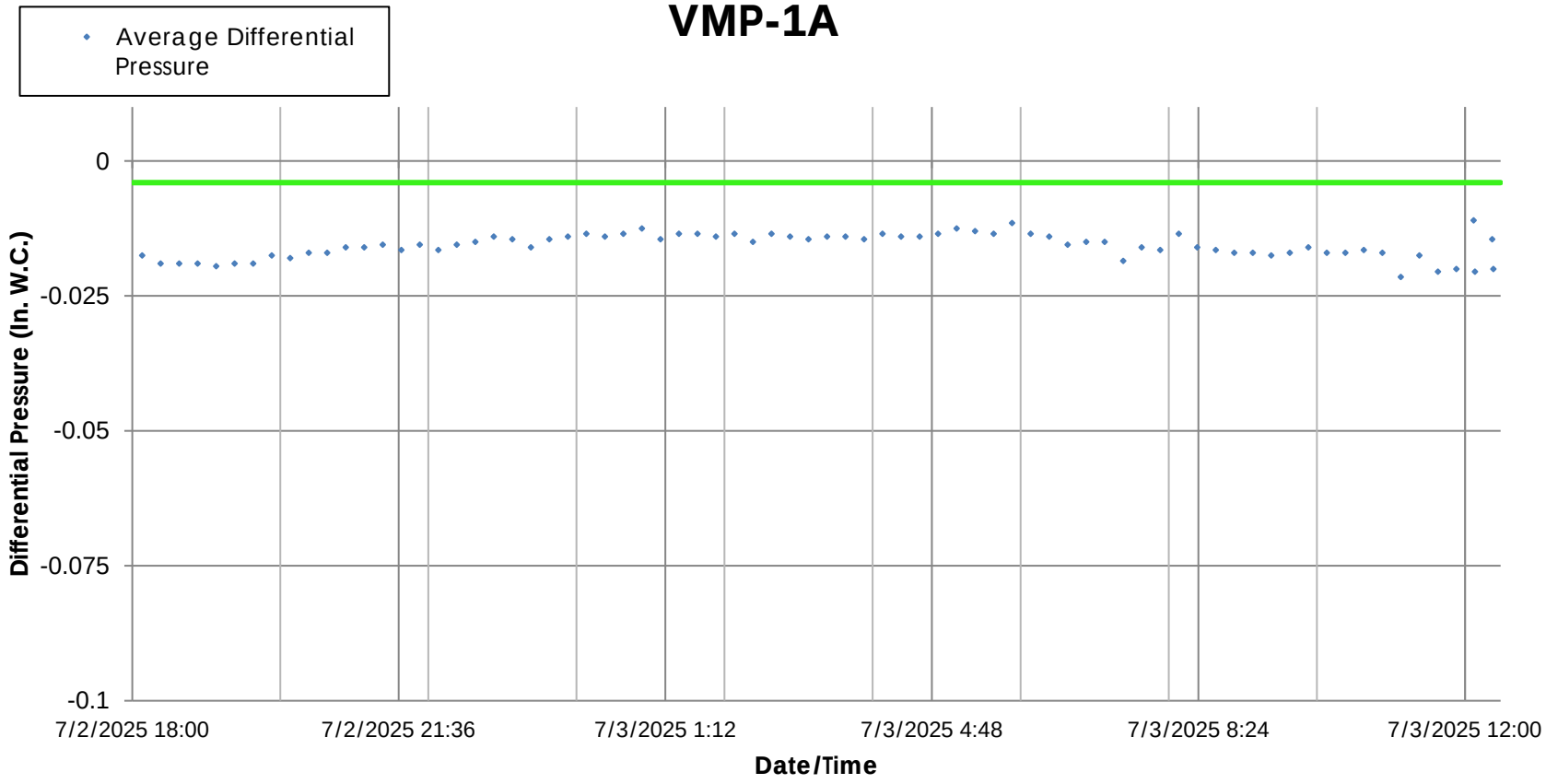
Figure A-18
Vacuum Monitoring Point VMP-8B
Differential Pressure Data
April 3-4, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

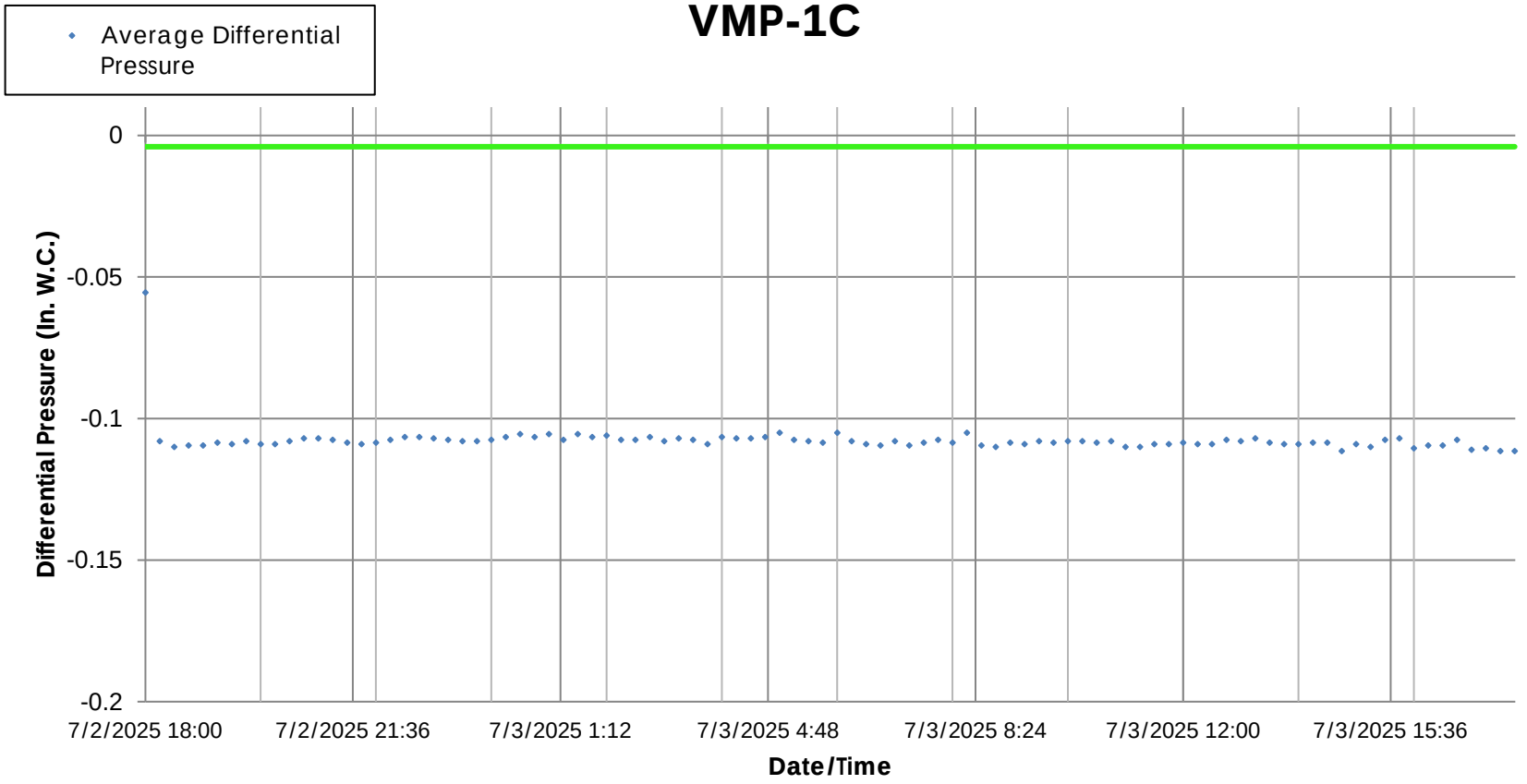
Figure A-19
Vacuum Monitoring Point VMP-8C
Differential Pressure Data
April 3-4, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former
Lockheed Martin French Road Facility, Utica, NY

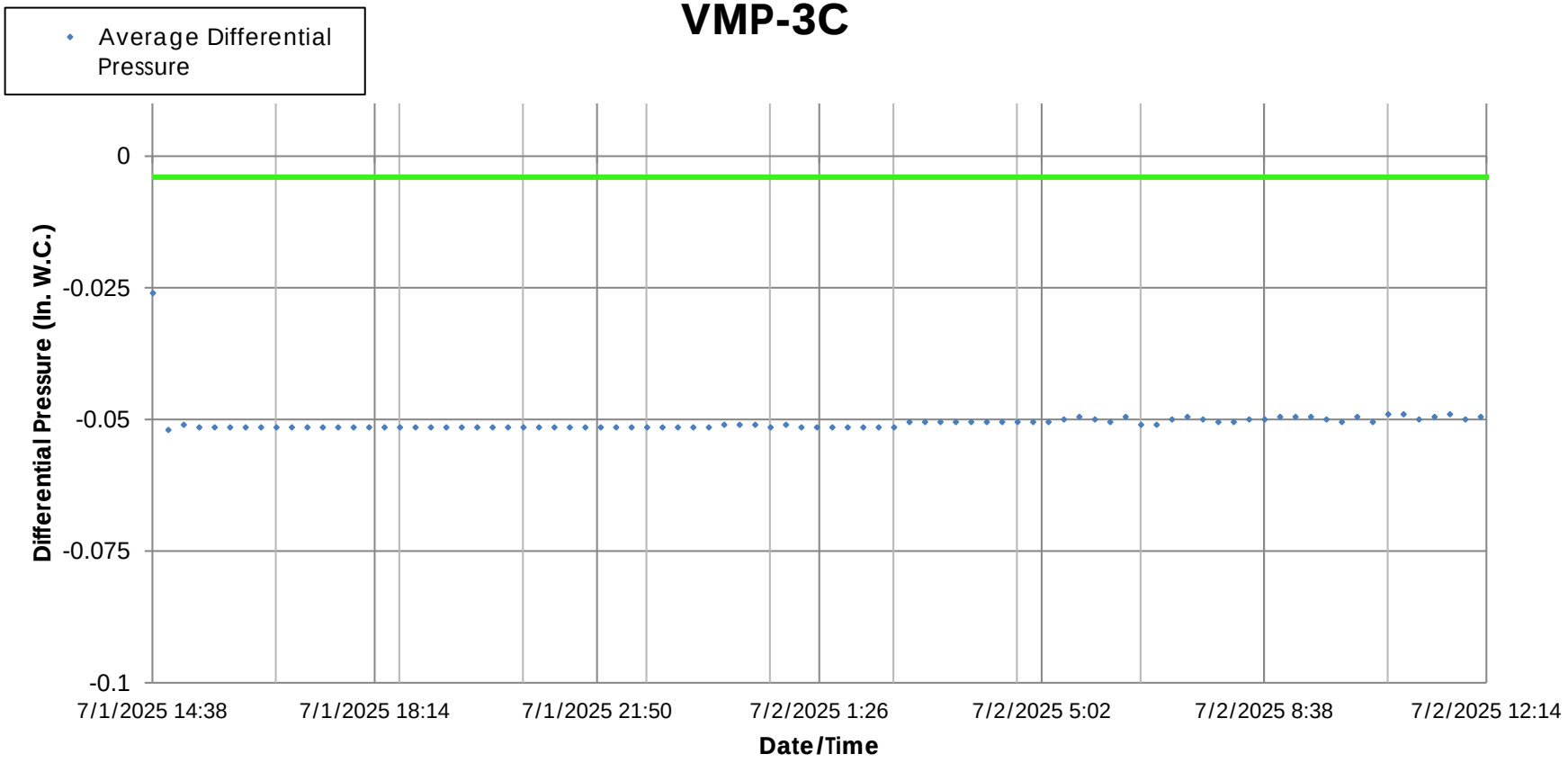
Figure A-20
Vacuum Monitoring Point VMP-1A
Differential Pressure Data
July 2-3, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report
Former
Lockheed Martin French Road Facility, Utica, NY

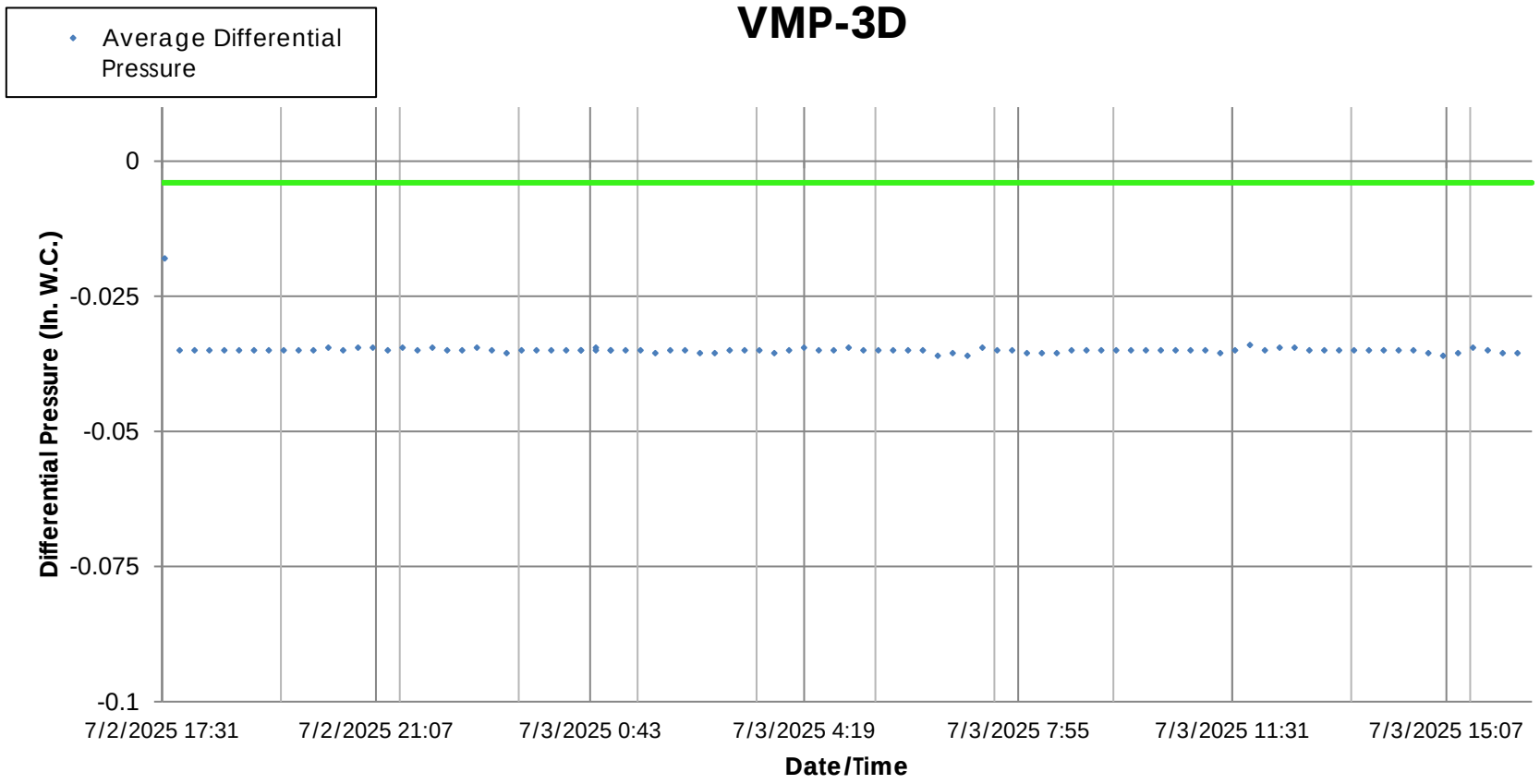
Figure A-21
Vacuum Monitoring Point VMP-1C
Differential Pressure Data
July 2-3, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

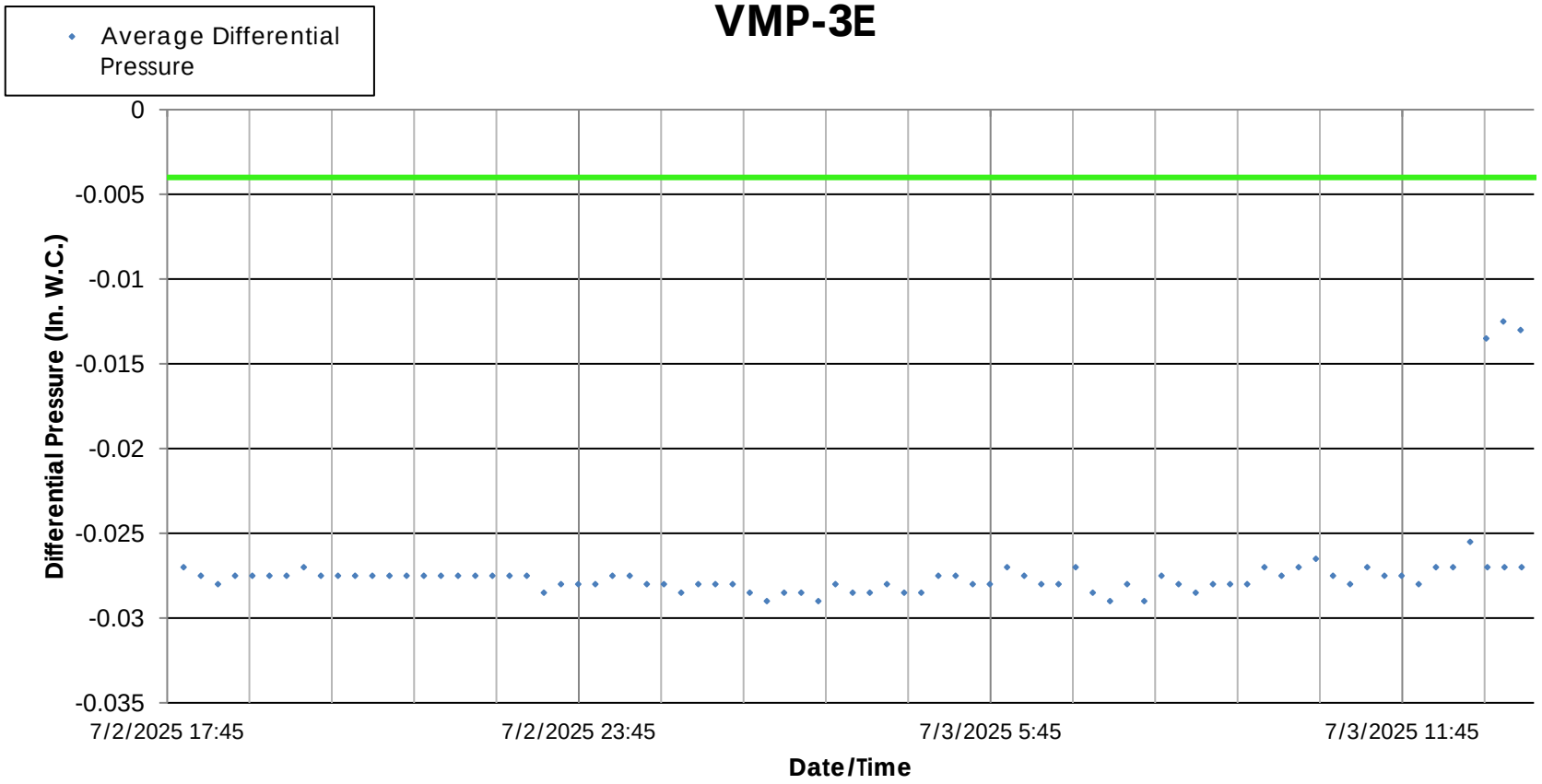
Figure A-22
Vacuum Monitoring Point VMP-3C
Differential Pressure Data
July 1-2, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

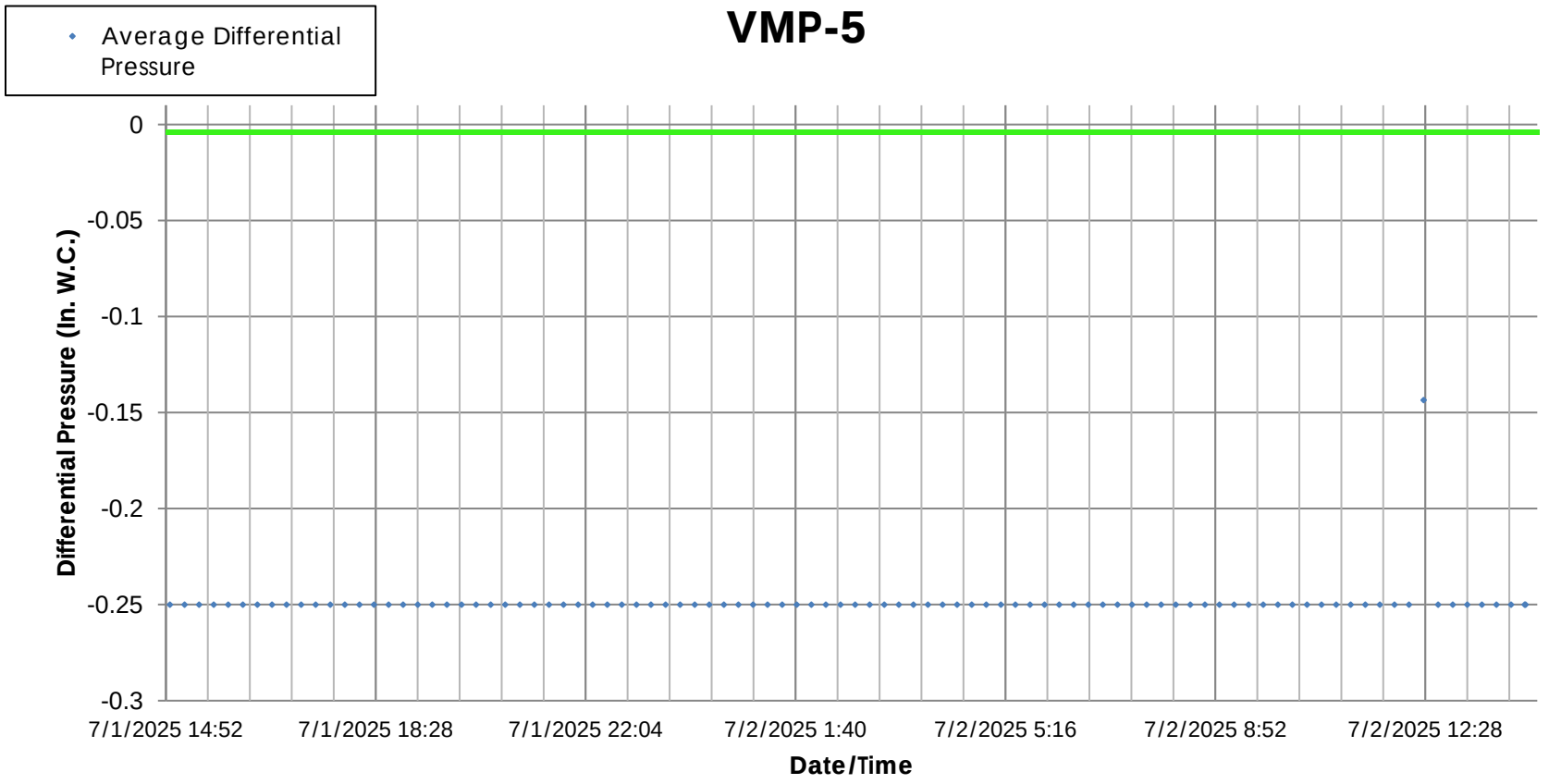
Figure A-23
Vacuum Monitoring Point VMP-3D
Differential Pressure Data
July 2-3, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-24
Vacuum Monitoring Point VMP-3E
Differential Pressure Data
July 2-3, 2025

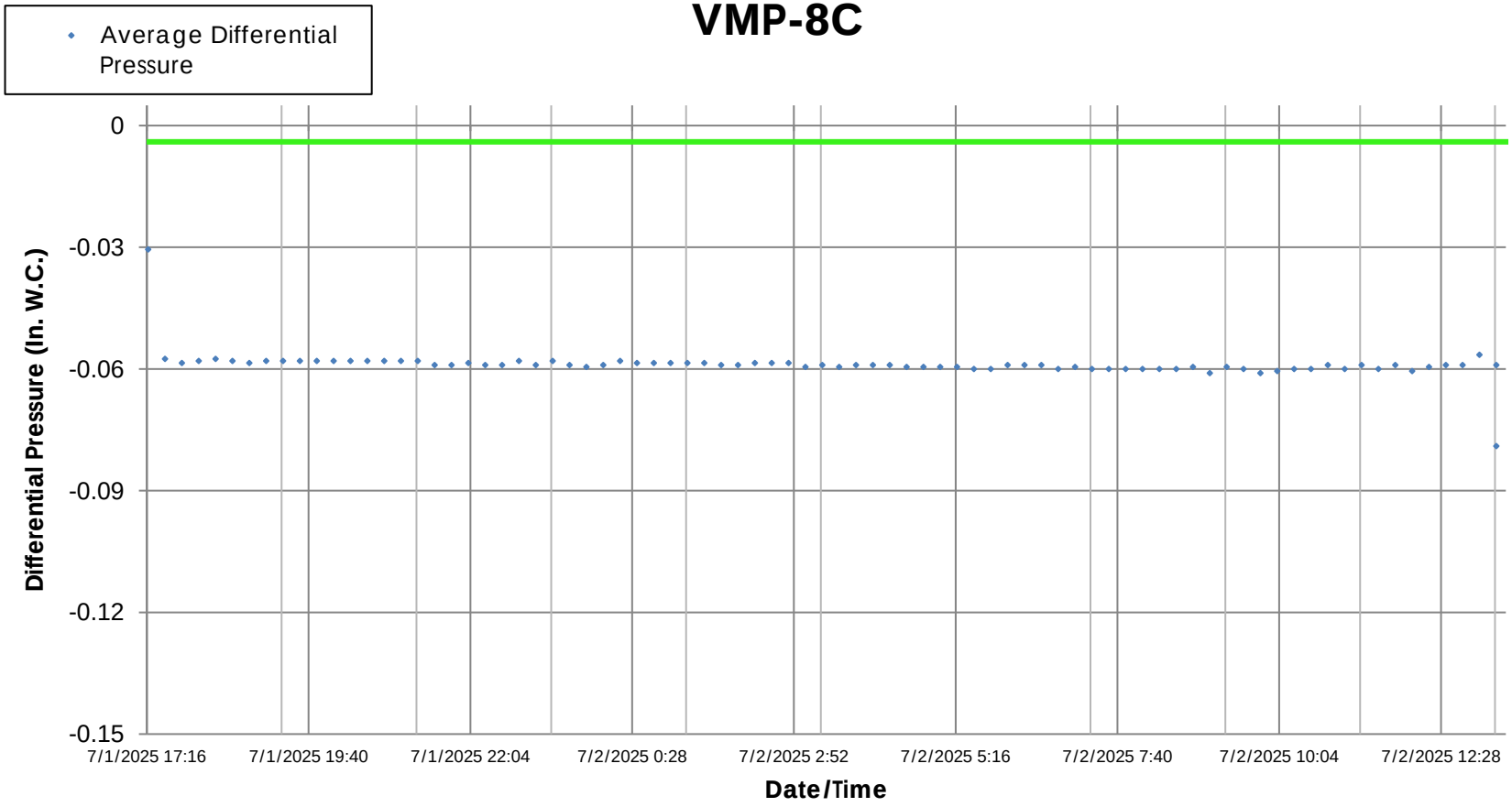


Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-25
Vacuum Monitoring Point VMP-5
Differential Pressure Data
July 1-2, 2025

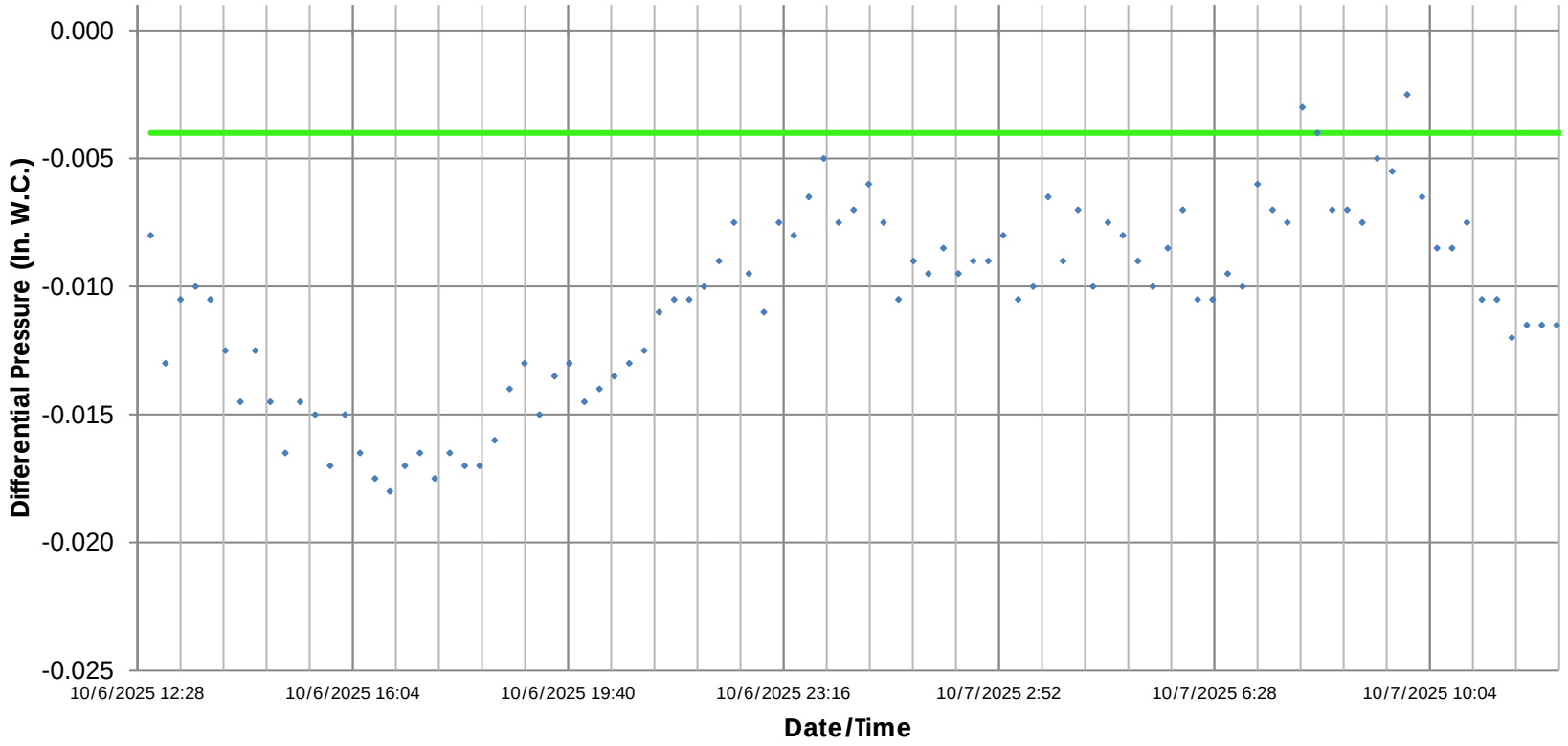
VMP-8C



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

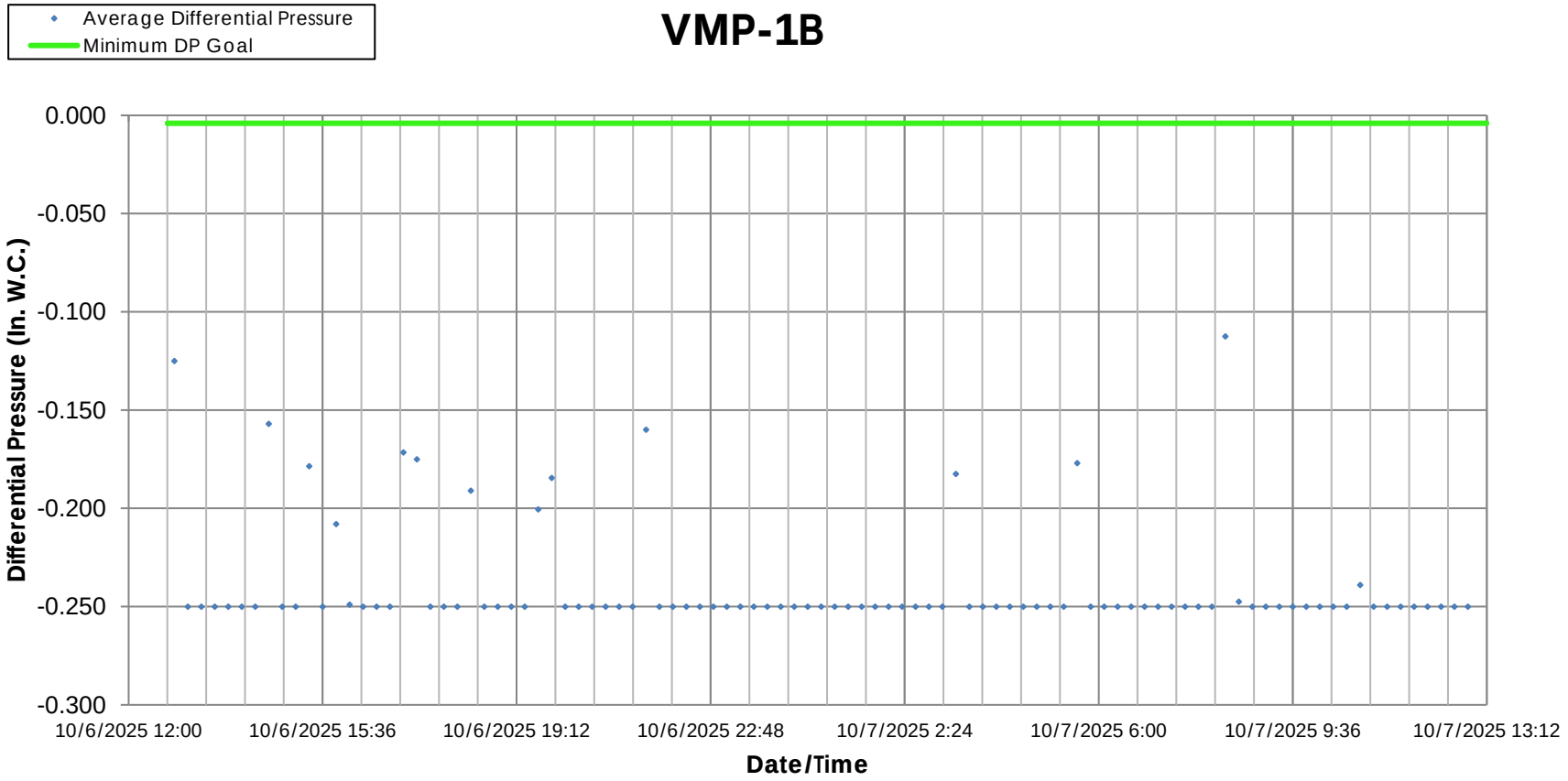
Figure A-26
Vacuum Monitoring Point VMP-8C
Differential Pressure Data
July 1-2, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

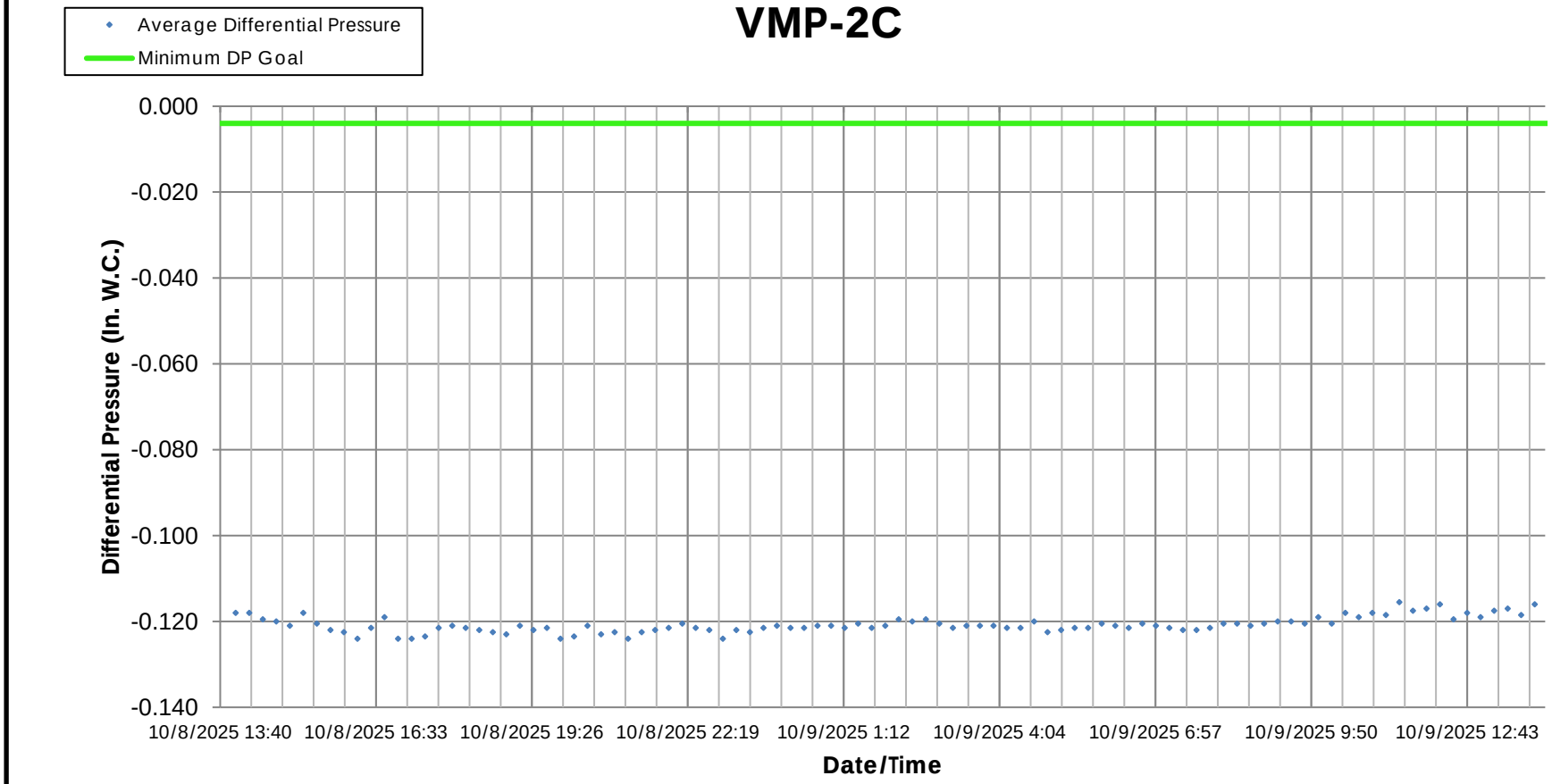
Figure A-27
Vacuum Monitoring Point VMP-1A
Differential Pressure Data
October 6-7, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

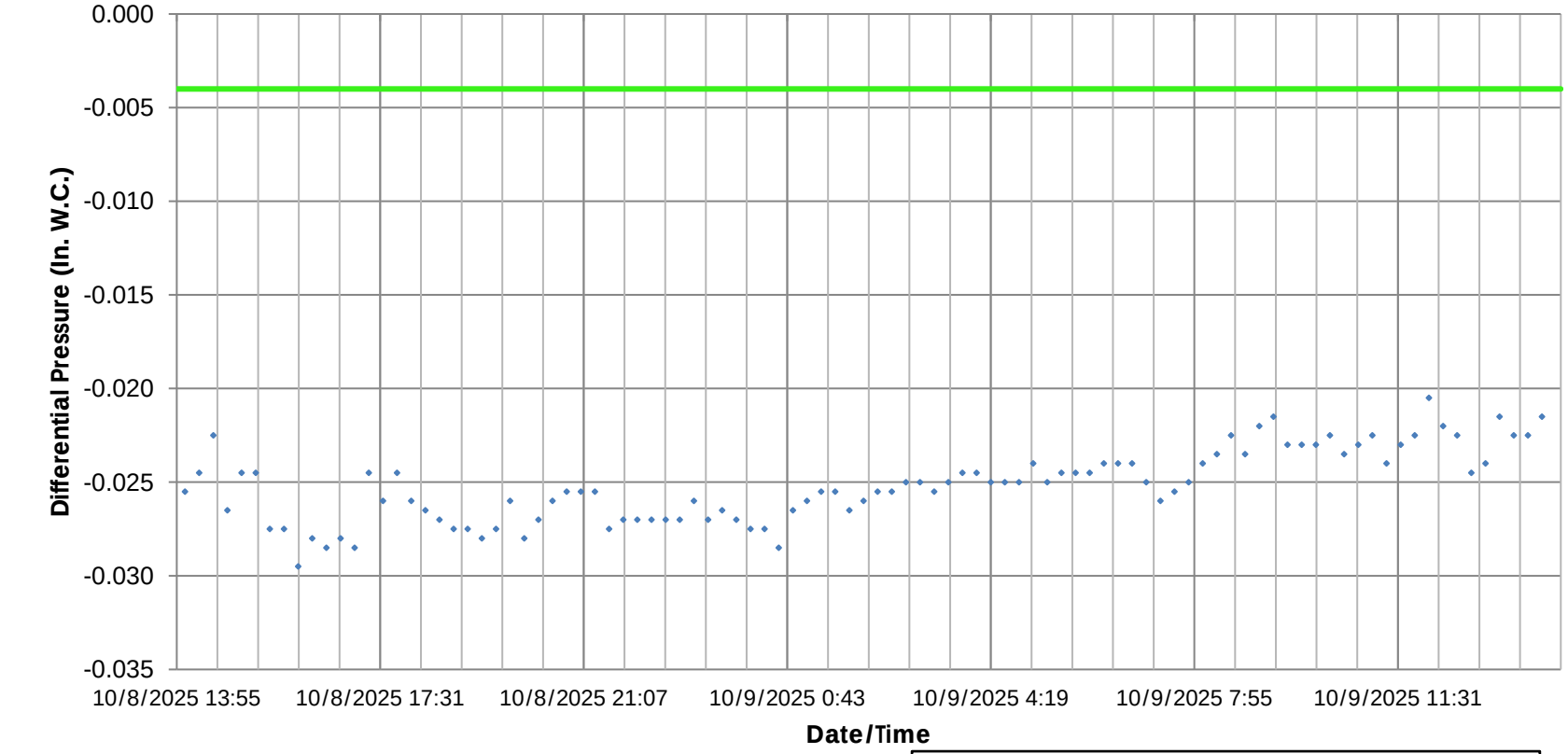
Figure A-28
Vacuum Monitoring Point VMP-1B
Differential Pressure Data
October 6-7, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

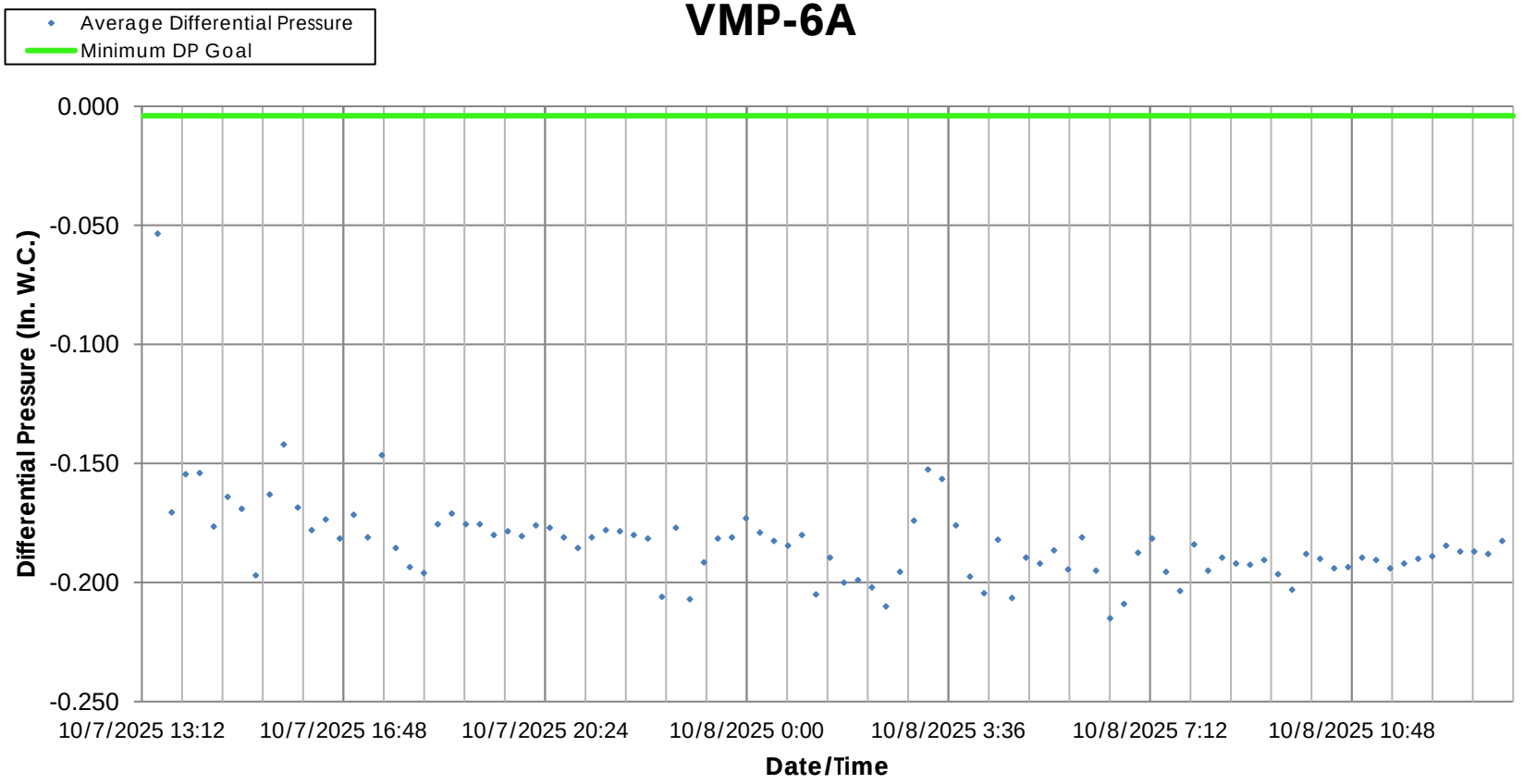
Figure A-29
Vacuum Monitoring Point VMP-2C
Differential Pressure Data
October 8-9, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

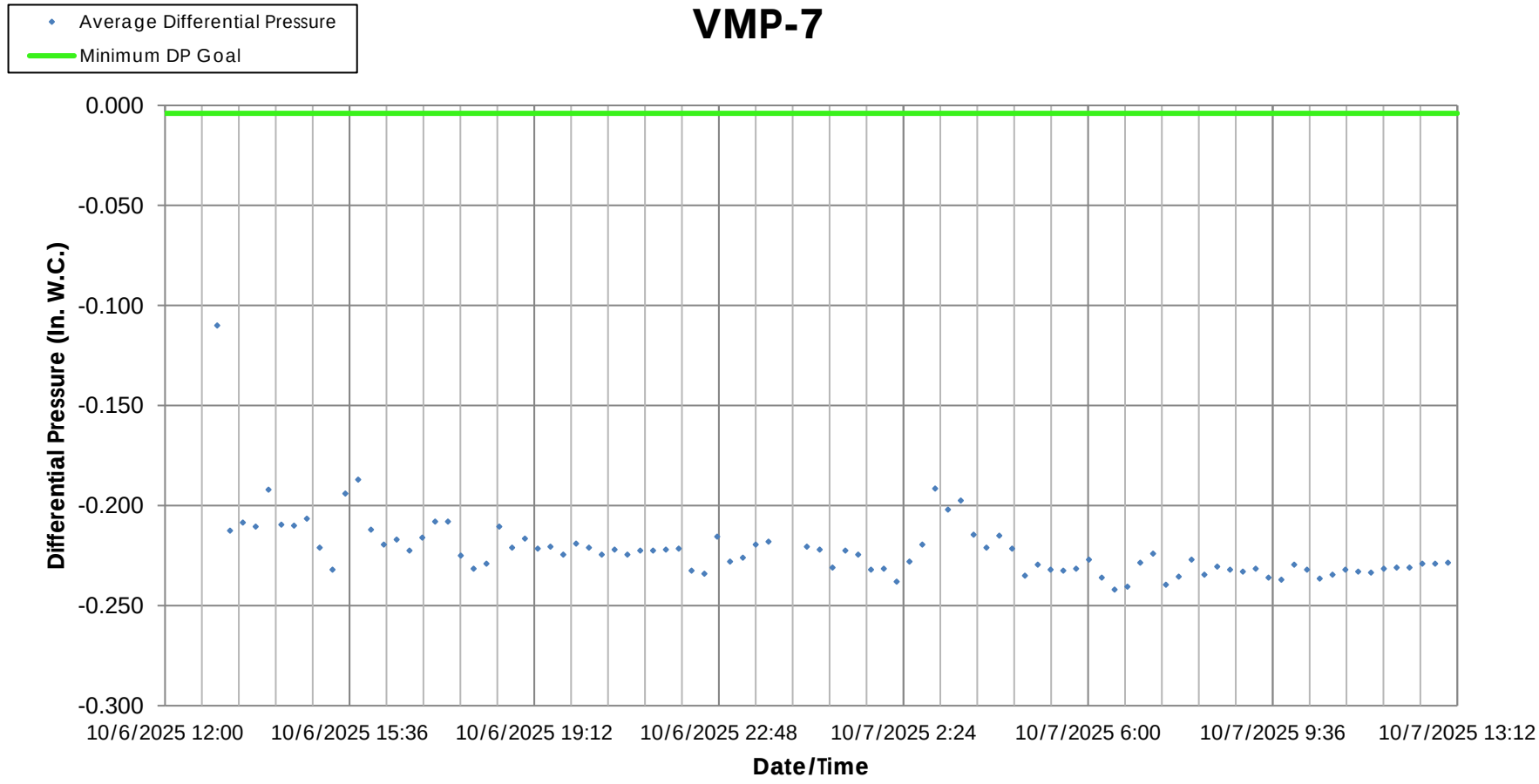
Figure A-30
Vacuum Monitoring Point VMP-3E
Differential Pressure Data
October 8-9, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

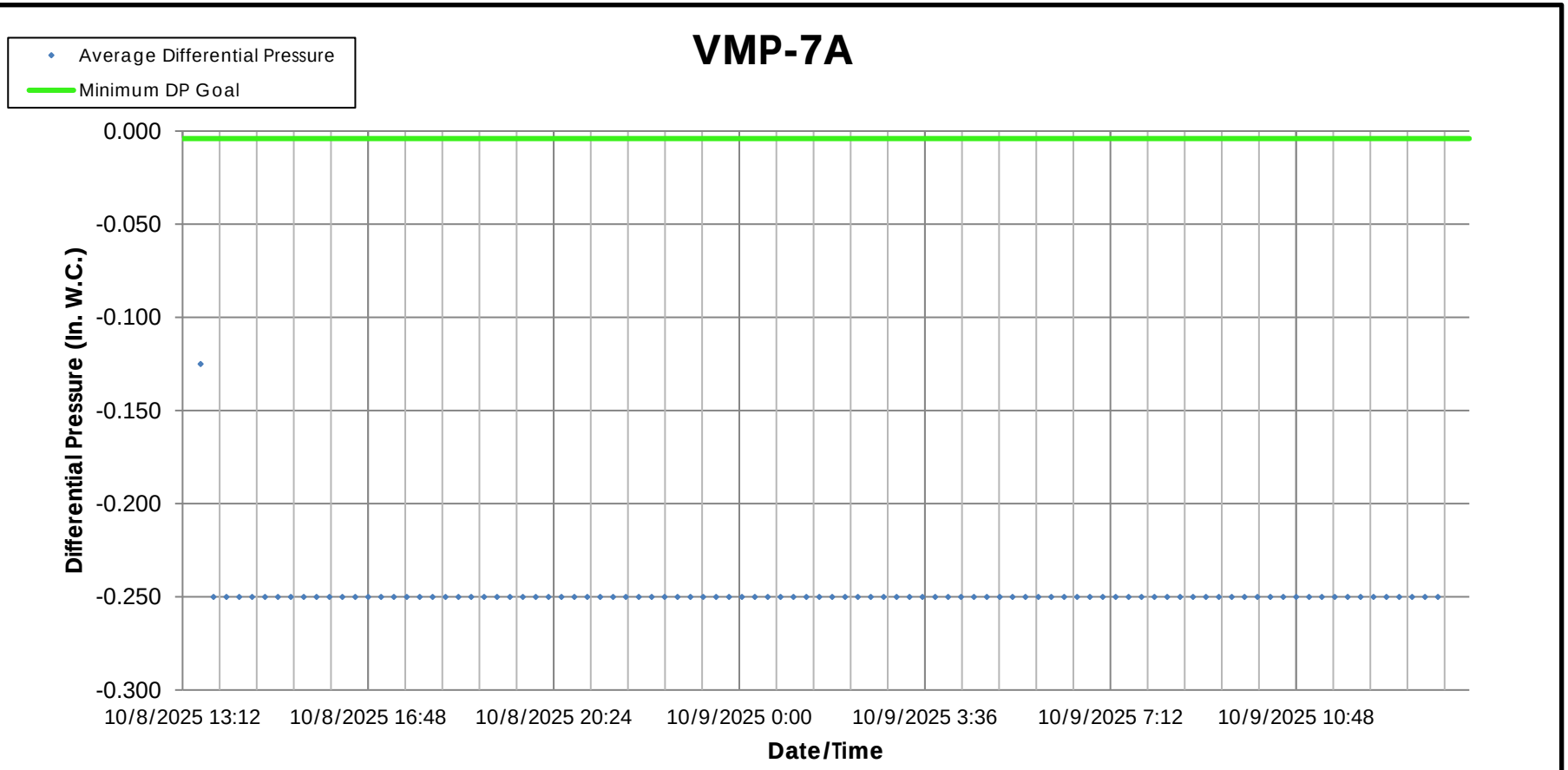
Figure A-31
Vacuum Monitoring Point VMP-6A
Differential Pressure Data
October 7-8, 2025



Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-32
Vacuum Monitoring Point VMP-7
Differential Pressure Data
October 6-7, 2025

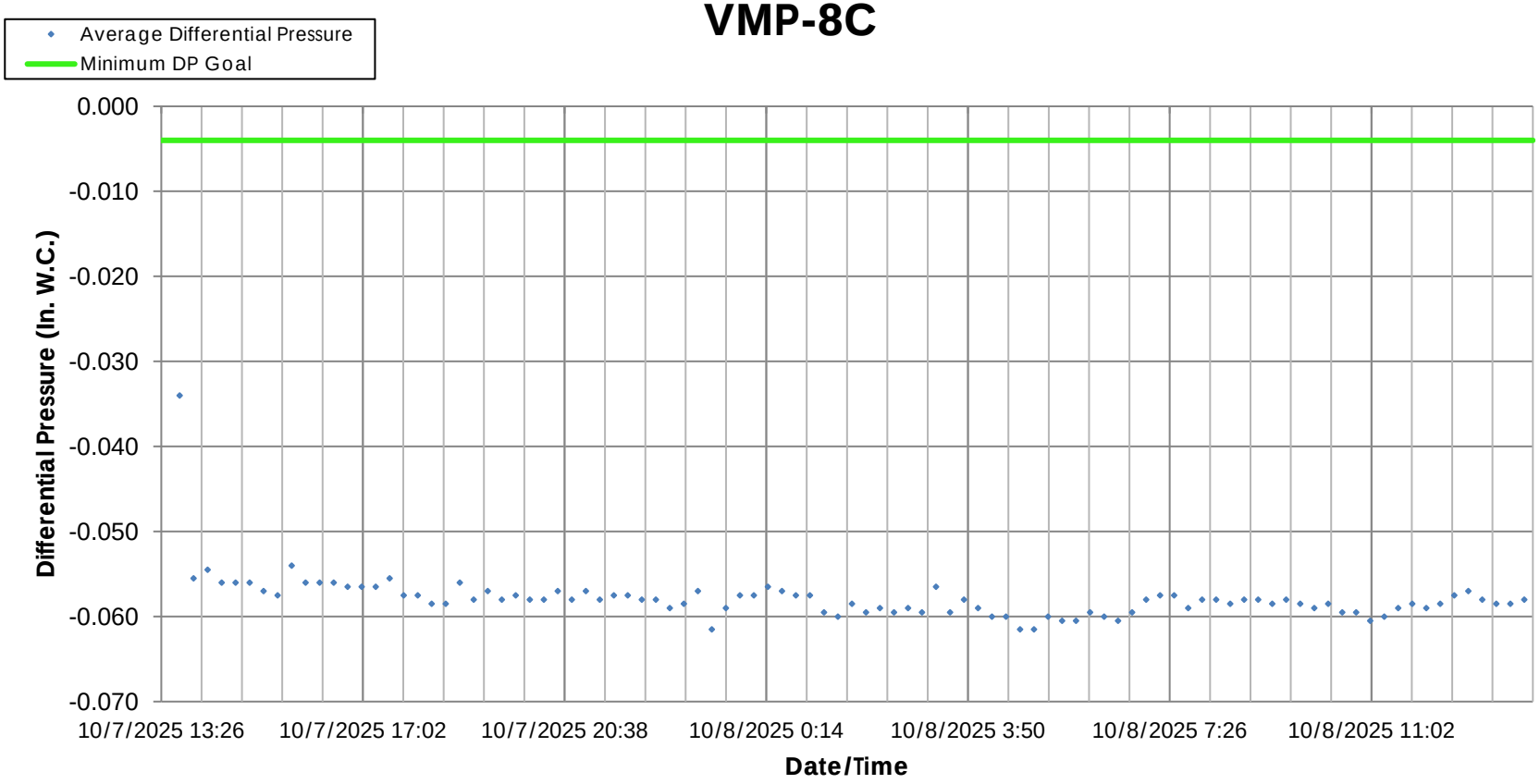


Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-33
Vacuum Monitoring Point VMP-7A
Differential Pressure Data
October 8-9, 2025

VMP-8C

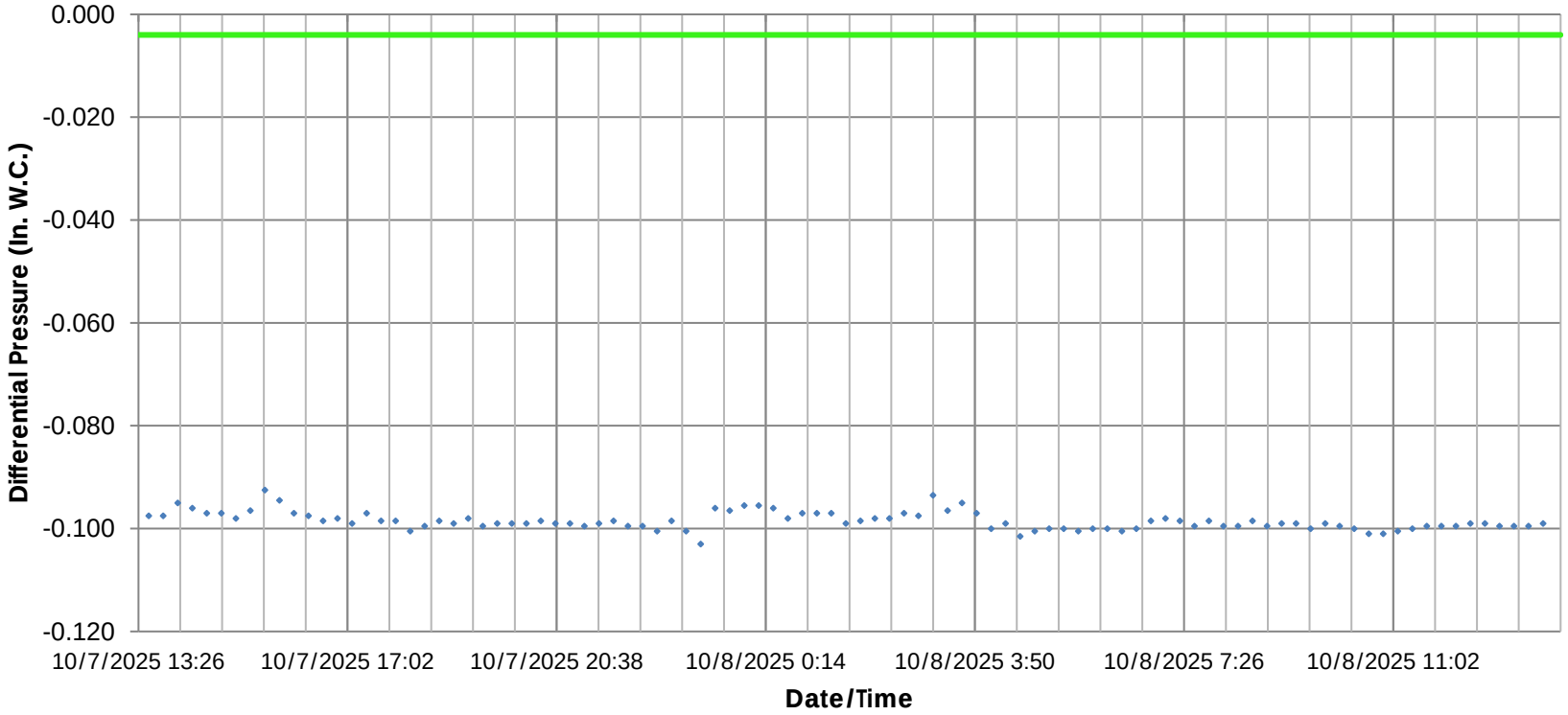


Notes:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-34
Vacuum Monitoring Point VMP-8C
Differential Pressure Data
October 7-8, 2025

VMP-8D



Note:
1. in. W.C. = Inches of water column
2. The differential pressure measurement range of the D.P. datalogger instrument is between -0.250 and +0.250. Values exceeding these limits are recorded as the maximum measurable value.

Appendix A: Sub-Slab Depressurization System
Operation, Maintenance, and Monitoring Performance Report Former
Lockheed Martin French Road Facility, Utica, NY

Figure A-35
Vacuum Monitoring Point VMP-8D
Differential Pressure Data
October 7-8, 2025

APPENDICES

Appendix A-1

SSDS OM&M Log Sheets

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 1/06/2025 Time: 10:10 am

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ○ Auto ○ Manual

Alarms? (list): FL-302

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-90	(in. W.C.)	VT-201	-76.3	(in. W.C.)
Post-Blower Temperature	TI-201	162	(°F)	TT-201	161.9	(°F)
Post-Heat Exchanger Temperature	TI-301	88	(°F)	TT-301	62.1	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.50	(in. W.C.)	FT-301	174	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	2.2	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 14

Ambient Indoor Temperature (°F): 20

Barometric Pressure (in Hg): 30.00

Barometric Pressure Trend ○ Rising ○ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2160 (fpm)
	185.76 (cfm)
Note position of HX-300 H-O-A switch	Auto
Electrical meter reading (KWH)	21659 150397 GW
Surge protector operational?	○ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ○ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	None.

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Open
BFV-302	Open
BFV-303	Closed
Notes:	Normal
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	○ Yes ○ No
How much in West?	22 inches East? 0 inch
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
VFD By-Pass Switch	MCC Door	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes	K/O hi and hi-hi won't turn on	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	○ Yes ○ No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	○ Yes ○ No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	○ Yes ○ No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	○ Yes ○ No	○ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	○ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	○ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	○ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	○ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	○ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	○ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 1/06/25 Time: 10:55 AM

Technician: Liam Whalen

VAPOR SAMPLING LOCATION

PID Tag: *SP-303* Time: 10:55 AM

Vapor Sample Collected? (●) Yes ( ) No

Condensate Present in Sample? ( ) Yes (●) No

Canister #	Canister Vacuum at Start (in. Hg)	Canister Vacuum at End (in. Hg)
135	-30.53	-9.90

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

24 HOUR CONTINUOUS SUBSLAB MONITORING SCHEDULE

VMP Location	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
VMP-1A	X	X	X	X
VMP-1B				X
VMP-1C			X	
VMP-2A	X			
VMP-2B		X		
VMP-2C				X
VMP-3A	X			
VMP-3B		X		
VMP-3C			X	
VMP-3D			X	
VMP-3E	X	X	X	X
VMP-4	X			
VMP-5			X	
VMP-5A	X			
VMP-5B		X		
VMP-6			X	
VMP-6A				X
VMP-6B		X		
VMP-7				X
VMP-7A	X			X
VMP-7B		X		
VMP-8A	X			
VMP-8B		X		
VMP-8C	X		X	X
VMP-8D				X

VACUUM MONITORING POINTS -- DIFFERENTIAL PRESSURE (in. W.C.)

VMP-1A	VMP-1B	VMP-1C
-0.006	-0.235	-0.103
VMP-2A	VMP-2B	VMP-2C
-0.043	-0.107	-0.073
VMP-3A	VMP-3B	VMP-3C
-0.151	-0.017	-0.057
VMP-3D	VMP-3E	VMP-4
-0.027	-0.011	-0.005
VMP-5	VMP-5A	VMP-5B
-0.357	-0.036	-0.018
VMP-6	VMP-6A	VMP-6B
-0.055	-0.356	-0.171
VMP-7	VMP-7A	VMP-7B
-0.492	-2.074	-0.113
VMP-8A	VMP-8B	VMP-8C
-1.329	-10.000	-0.070
VMP-8D		
-0.109		

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

SUB-SLAB DEPRESSURIZATION SUMPS

SDS-1 Orifice Plate Differential Pressure Typical Range = 0.03-0.07

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-79	-0.010	7

SDS-2 Orifice Plate Differential Pressure Typical Range = 0.02-0.09

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-1	-0.04	1

SDS-3 Orifice Plate Differential Pressure Typical Range = 0.2-1.1

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-4.2	1.0	0.75

SDS-4 Orifice Plate Differential Pressure Typical Range = 0.80-2.3

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-6	-2.0	1

SDS-5 Orifice Plate Differential Pressure Typical Range = 0.08-0.30

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-66	-0.86	1

SDS-6 Orifice Plate Differential Pressure Typical Range = 0.02-0.08

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-77	-0.010	4

SDS-7 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-78	-0.010	7

SDS-8 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-76	-0.30	6

SDS-9 Orifice Plate Differential Pressure Typical Range = 0.5 - 1.0

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-10	-0.72	1

CRITICAL DEVICE/ALARM TESTING

Test the following critical alarms (note that the system must be in AUTO to observe proper alarm response)

Vacuum Transmitter

Corresponding Transmitter/Sensor: *VT-201*

PLC Alarm Name: *VA_201*

Alarm Type ◉ Fatal ○ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ◉ Yes ○ No

Passed ◉ Yes ○ No

Notes: Moved the setpoint to trigger alarm.

Flow Transmitter

Corresponding Transmitter/Sensor: *FT-301*

PLC Alarm Name: *FA_301*

Alarm Type ○ Fatal ◉ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ○ Yes ◉ No

Passed ◉ Yes ○ No

Notes: Moved the setpoint to trigger alarm.

Pressure Transmitter

Corresponding Transmitter/Sensor: *PT-201*

PLC Alarm Name: *PA_201*

Alarm Type ◉ Fatal ○ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ◉ Yes ○ No

Passed ◉ Yes ○ No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-201*

PLC Alarm Name: *TA_201*

Alarm Type ◉ Fatal ○ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ◉ Yes ○ No

Passed ◉ Yes ○ No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-301*

PLC Alarm Name: *TA_301*

Alarm Type ◉ Fatal ○ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ◉ Yes ○ No

Passed ◉ Yes ○ No

Notes: Moved the setpoint to trigger alarm.

Air Water Separator High Level Switch

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *AWS_HI*

Alarm Type ○ Fatal ◉ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ○ Yes ◉ No

Passed ◉ Yes ○ No

Notes: Added water to tank until level switch was triggered.

Air Water Separator High-High Level Switch

Corresponding Transmitter/Sensor: *LSHH-201*

PLC Alarm Name: *AWS_HH*

Alarm Type ◉ Fatal ○ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ◉ Yes ○ No

Passed ◉ Yes ○ No

Notes: Added additional water to tank until level switch was triggered.

Wet Floor Sensor

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *FLRWET*

Alarm Type ○ Fatal ◉ Non-Fatal

Caused PLC Alarm State Change? ◉ Yes ○ No

Caused System Shutdown? ○ Yes ◉ No

Passed ◉ Yes ○ No

Notes: Added water to sensor to trigger alarm.

CRITICAL DEVICE CORRECTIVE ACTION LOG SHEET

Date 1/06/25 Time

Critical Device Failure:

None

Device Failure:

None

Corrective Action:

None

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 1/06/2025 Time: 10:10 am

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ◯ Auto ◯ Manual

Alarms? (list): FL-302

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-90	(in. W.C.)	VT-201	-76.3	(in. W.C.)
Post-Blower Temperature	TI-201	162	(°F)	TT-201	161.9	(°F)
Post-Heat Exchanger Temperature	TI-301	88	(°F)	TT-301	62.1	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.50	(in. W.C.)	FT-301	174	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	2.2	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 14

Ambient Indoor Temperature (°F): 20

Barometric Pressure (in Hg): 30.00

Barometric Pressure Trend ◯ Rising ◯ Falling ◯ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2160 (fpm)
	185.76 (cfm)
Note position of HX-300 H-O-A switch	Auto
Electrical meter reading (KWH)	21659 150397 GW
Surge protector operational?	◯ Yes ◯ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	◯ Yes ◯ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	None.

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Open
BFV-302	Open
BFV-303	Closed
Notes:	Normal
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◯ Yes ◯ No
How much in West?	22 inches East? 0 inch
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
VFD By-Pass Switch	MCC Door	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes	K/O hi and hi-hi won't turn on	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	◯ Yes ◯ No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	◯ Yes ◯ No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	◯ Yes ◯ No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◯ Yes ◯ No	◯ Pass ◯ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◯ Yes ◯ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◯ Yes ◯ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◯ Yes ◯ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◯ Yes ◯ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◯ Yes ◯ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◯ Yes ◯ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 2/3/2025 Time: 11:50 am

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ◉ Auto ○ Manual

Alarms? (list): Heat Exchanger FL-302 and FL-301.

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-90	(in. W.C.)	VT-201	-72.1	(in. W.C.)
Post-Blower Temperature	TI-201	174	(°F)	TT-201	175.4	(°F)
Post-Heat Exchanger Temperature	TI-301	85	(°F)	TT-301	85.6	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.19	(in. W.C.)	FT-301	57	(cfm)
Post-Blower Pressure	PI-201	6	(in. W.C.)	PT-201	11.3	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	9	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	10	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 50

Ambient Indoor Temperature (°F): 34

Barometric Pressure (in Hg): 29.97

Barometric Pressure Trend ○ Rising ◉ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2187 (fpm)
	188.08 (cfm)
Note position of HX-300 H-O-A switch	OFF
Electrical meter reading (KWH)	27573
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	◉ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	Less than 1-inch in sight tube - AWS was drained

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Open
BFV-302	Open
BFV-303	Closed
Notes:	Normal
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass (•) Fail
		Notes	KO Hi and KO Hi Hi Lamps Not Working	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 3/3/25 Time: 10:15

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" — ◉ Auto ○ Manual

Alarms? (list):

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-80.5	(in. W.C.)
Post-Blower Temperature	TI-201	174	(°F)	TT-201	175.9	(°F)
Post-Heat Exchanger Temperature	TI-301	44	(°F)	TT-301	40.7	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.38	(in. W.C.)	FT-301	131	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.4	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 21

Ambient Indoor Temperature (°F): 38

Barometric Pressure (in Hg): 30.26

Barometric Pressure Trend: ◉ Rising ○ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2152 (fpm)
	(cfm)
Note position of HX-300 H-O-A switch	off
Electrical meter reading (KWH)	32524 (SSDS) 154394 (GW)
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 East? 0
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	no KO HI or KO HI-HI lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 4/2/2025 Time: 09:10 am

Technician: Liam Whalen, Cody Horowitz

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ◉ Auto ○ Manual

Alarms? (list)

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-80	(in. W.C.)
Post-Blower Temperature	TI-201	1180	(°F)	TT-201	181	(°F)
Post-Heat Exchanger Temperature	TI-301	60	(°F)	TT-301	57.2	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.38	(in. W.C.)	FT-301	145	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.8	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 32

Ambient Indoor Temperature (°F): 55

Barometric Pressure (in Hg): 30.46

Barometric Pressure Trend ◉ Rising ○ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2155 (fpm)
	185.33 (cfm)
Note position of HX-300 H-O-A switch	Off
Electrical meter reading (KWH)	SSDS- 38562 GW - 155782
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 4/4/25 Time: 09:10 am

Technician: Liam Whalen

VAPOR SAMPLING LOCATION

PID Tag: *SP-303* Time: 09:45

Vapor Sample Collected? (●) Yes ( ) No

Condensate Present in Sample? ( ) Yes (●) No

Canister #	Canister Vacuum at Start (in. Hg)	Canister Vacuum at End (in. Hg)
3552	-30.02	0

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

24 HOUR CONTINUOUS SUBSLAB MONITORING SCHEDULE

VMP Location	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
VMP-1A	X	X	X	X
VMP-1B				X
VMP-1C			X	
VMP-2A	X			
VMP-2B		X		
VMP-2C				X
VMP-3A	X			
VMP-3B		X		
VMP-3C			X	
VMP-3D			X	
VMP-3E	X	X	X	X
VMP-4	X			
VMP-5			X	
VMP-5A	X			
VMP-5B		X		
VMP-6			X	
VMP-6A				X
VMP-6B		X		
VMP-7				X
VMP-7A	X			X
VMP-7B		X		
VMP-8A	X			
VMP-8B		X		
VMP-8C	X		X	X
VMP-8D				X

VACUUM MONITORING POINTS -- DIFFERENTIAL PRESSURE (in. W.C.)

VMP-1A	VMP-1B	VMP-1C
0.007	0.167	0.102
VMP-2A	VMP-2B	VMP-2C
0.065	0.101	0.111
VMP-3A	VMP-3B	VMP-3C
0.135	0.014	0.045
VMP-3D	VMP-3E	VMP-4
0.028	0.020	0.100
VMP-5	VMP-5A	VMP-5B
0.459	0.048	0.024
VMP-6	VMP-6A	VMP-6B
0.066	0.402	0.170
VMP-7	VMP-7A	VMP-7B
0.458	10.0	0.177
VMP-8A	VMP-8B	VMP-8C
1.256	10.0	0.057
VMP-8D		
0.092		

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

SUB-SLAB DEPRESSURIZATION SUMPS

SDS-1 Orifice Plate Differential Pressure Typical Range = 0.03-0.07

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
80	0.01	7

SDS-2 Orifice Plate Differential Pressure Typical Range = 0.02-0.09

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
1	0.03	1

SDS-3 Orifice Plate Differential Pressure Typical Range = 0.2-1.1

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
2.4	0.48	1

SDS-4 Orifice Plate Differential Pressure Typical Range = 0.80-2.3

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
6	2.0	1

SDS-5 Orifice Plate Differential Pressure Typical Range = 0.08-0.30

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
61	1.5	1

SDS-6 Orifice Plate Differential Pressure Typical Range = 0.02-0.08

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
78	0.03	3

SDS-7 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
80	0.010	7

SDS-8 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
78	0.40	6

SDS-9 Orifice Plate Differential Pressure Typical Range = 0.5 - 1.0

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
8	0.43	1

CRITICAL DEVICE/ALARM TESTING

Test the following critical alarms (note that the system must be in AUTO to observe proper alarm response)

Vacuum Transmitter

Corresponding Transmitter/Sensor: *VT-201*

PLC Alarm Name: *VA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Flow Transmitter

Corresponding Transmitter/Sensor: *FT-301*

PLC Alarm Name: *FA_301*

Alarm Type: ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Pressure Transmitter

Corresponding Transmitter/Sensor: *PT-201*

PLC Alarm Name: *PA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-201*

PLC Alarm Name: *TA_201*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-301*

PLC Alarm Name: *TA_301*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Air Water Separator High Level Switch

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *AWS_HI*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to tank until level switch was triggered.

Air Water Separator High-High Level Switch

Corresponding Transmitter/Sensor: *LSHH-201*

PLC Alarm Name: *AWS_HH*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Added additional water to tank until level switch was triggered.

Wet Floor Sensor

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *FLRWET*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to sensor to trigger alarm.

CRITICAL DEVICE CORRECTIVE ACTION LOG SHEET

Date 4/4/2025 Time 1400

Critical Device Failure:

None

Device Failure:

None

Corrective Action:

None

Former Lockheed Martin French Road Facility Utica, New York					
Site Location: 525 French Rd, Utica, NY 13502					**Tetra Tech PM – Peter Rich** **HRP Engineer PM – Kim Baines** **HRP Engineer Insp. – Noah Zaffino**
Weather Conditions					
General	Clear	AM	Clear	AM	
Temperature	50	AM	51	AM	
Wind	East 15-17 mph	AM	East-Southeast 15-17 mph	AM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	**No**	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	**No**	NA
Were there any nuisance issues reported/observed on this date?	*Yes	**No**	NA

Health & Safety Comments
PPE worn. Stay clear of forklift traffic.

Summary of Work Performed	Arrived at site:	14:00	Departed Site:	15:16

-HRP onsite 14:00
-HRP took an effluent air sample from the SSDS.
-HRP cleared the base of the damaged suction point of debris and applied self-leveling caulk to the area to seal.
-HRP offsite 15:16

Equipment/Material Tracking **If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**			
Were there any vehicles which did not display proper D.O.T numbers and placards?	Yes	**No**	NA
Were there any vehicles which were not tarped?	Yes	No	**NA**
Were there any vehicles which were not decontaminated prior to exiting the work site?	Yes	No	**NA**

Personnel and Equipment

Individual	**Company**	**Trade**	**Total Hours**
Noah Zaffino	HRP	Consultant	1.25

Equipment Description	**Contractor/Vendor**	**Quantity**	**Used**
Caulk gun and caulk	HRP	1	Yes

Material Description	**Imported/ Delivered to Site/Used**	**Exported off Site**	**Waste Profile (If Applicable)**	**Source or Disposal Facility (If Applicable)**	**Daily Loads**	**Daily Weight (tons)***
NA						

Equipment/Material Tracking Comments:
-NA

Visitors to Site:

Name	**Representing**	**Entered Exclusion/CRZ Zone**
N/A		

Site Representatives

Name	**Representing**
Noah Zaffino	HRP

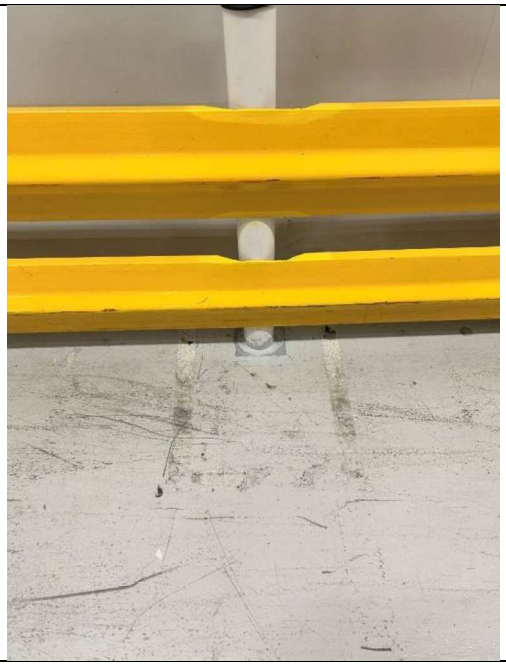
Project Schedule Comments

- HRP to return and cement the base and open gate valve on suction point

Issues Pending
-NA
Interaction with Public, Property Owners, Media, etc.
HRP reached out to Matt Clum from Conmed to inform him that the repair was complete and that HRP would be back on site at a later date to open the gate valve once the caulk had cured.

Site Photographs (Descriptions Below)

Photos of the damage. Guard rail was scuffed, the seal at the base of suction point was damaged and wall anchor was pulled out of the wall.



HRP removed damaged material around the base of the suction point and applied self-leveling caulk to create a seal.

Comments	
None.	
Site Inspector(s): Noah Zaffino	**Date: 04/17/2025**

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 5/9/25 Time: 0940

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ◉ Auto ○ Manual

Alarms? (list)

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-78.6	(in. W.C.)
Post-Blower Temperature	TI-201	190	(°F)	TT-201	192.9	(°F)
Post-Heat Exchanger Temperature	TI-301	72	(°F)	TT-301	70.3	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.40	(in. W.C.)	FT-301	136	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.1	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 48

Ambient Indoor Temperature (°F): 66.5

Barometric Pressure (in Hg): 30.04

Barometric Pressure Trend ○ Rising ◉ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2872 (fpm)
	246.9 (cfm)
Note position of HX-300 H-O-A switch	Off
Electrical meter reading (KWH)	SSDS- 46188 GW - 156908
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	BV-201 opened to drain any condensate below sight glass level as preventative maintenance

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 6/6/25 Time: 0955

Technician: Noah Zaffino

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL": (●) Auto ( ) Manual

Alarms? (list): N/A

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-77.3	(in. W.C.)
Post-Blower Temperature	TI-201	202	(°F)	TT-201	204.5	(°F)
Post-Heat Exchanger Temperature	TI-301	90	(°F)	TT-301	89.4	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.42	(in. W.C.)	FT-301	145	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.3	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	1	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 67

Ambient Indoor Temperature (°F): 87

Barometric Pressure (in Hg): 29.99

Barometric Pressure Trend: (●) Rising ( ) Falling ( ) Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2518 (fpm)
	216.55 (cfm)
Note position of HX-300 H-O-A switch	Off
Electrical meter reading (KWH)	SSDS- 51858 GW - 157319
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 7/2/2025 Time: 1340

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL": (•) Auto ( ) Manual

Alarms? (list): None

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-78.1	(in. W.C.)
Post-Blower Temperature	TI-201	214	(°F)	TT-201	216.3	(°F)
Post-Heat Exchanger Temperature	TI-301	92	(°F)	TT-301	92.6	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.38	(in. W.C.)	FT-301	122	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.1	(in. W.C)
Post-Filter Applied Vacuum	VI-202	100	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	3	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 81

Ambient Indoor Temperature (°F): 85

Barometric Pressure (in Hg): 29.86

Barometric Pressure Trend: ( ) Rising (•) Falling ( ) Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2845 (fpm)
	244.67 (cfm)
Note position of HX-300 H-O-A switch	Off
Electrical meter reading (KWH)	SSDS- 56888 GW - 157443
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	Wet floors around sumps

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 7/2/25 Time: 1455

Technician: Liam Whalen

VAPOR SAMPLING LOCATION

PID Tag: *SP-303* Time: 1500

Vapor Sample Collected? (•) Yes ( ) No

Condensate Present in Sample? ( ) Yes (•) No

Canister #	Canister Vacuum at Start (in. Hg)	Canister Vacuum at End (in. Hg)
1507	-28.82	-6.01

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

24 HOUR CONTINUOUS SUBSLAB MONITORING SCHEDULE

VMP Location	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
VMP-1A	X	X	X	X
VMP-1B				X
VMP-1C			X	
VMP-2A	X			
VMP-2B		X		
VMP-2C				X
VMP-3A	X			
VMP-3B		X		
VMP-3C			X	
VMP-3D			X	
VMP-3E	X	X	X	X
VMP-4	X			
VMP-5			X	
VMP-5A	X			
VMP-5B		X		
VMP-6			X	
VMP-6A				X
VMP-6B		X		
VMP-7				X
VMP-7A	X			X
VMP-7B		X		
VMP-8A	X			
VMP-8B		X		
VMP-8C	X		X	X
VMP-8D				X

VACUUM MONITORING POINTS -- DIFFERENTIAL PRESSURE (in. W.C.)

VMP-1A	VMP-1B	VMP-1C
0.005	0.268	0.098
VMP-2A	VMP-2B	VMP-2C
0.060	0.109	0.119
VMP-3A	VMP-3B	VMP-3C
0.121	0.015	0.052
VMP-3D	VMP-3E	VMP-4
0.032	0.024	0.014
VMP-5	VMP-5A	VMP-5B
0.465	0.056	0.032
VMP-6	VMP-6A	VMP-6B
0.154	0.203	0.088
VMP-7	VMP-7A	VMP-7B
0.219	10.0	0.136
VMP-8A	VMP-8B	VMP-8C
0.715	4.715	0.060
VMP-8D		
0.101		

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

SUB-SLAB DEPRESSURIZATION SUMPS

SDS-1 Orifice Plate Differential Pressure Typical Range = 0.03-0.07

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
78	0.015	7

SDS-2 Orifice Plate Differential Pressure Typical Range = 0.02-0.09

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
2	0.045	1

SDS-3 Orifice Plate Differential Pressure Typical Range = 0.2-1.1

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
2.8	0.45	1

SDS-4 Orifice Plate Differential Pressure Typical Range = 0.80-2.3

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
8	0.20	1

SDS-5 Orifice Plate Differential Pressure Typical Range = 0.08-0.30

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
60	1.25	1

SDS-6 Orifice Plate Differential Pressure Typical Range = 0.02-0.08

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
66	0.010	2

SDS-7 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
77	0.010	7

SDS-8 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
78	0.14	6

SDS-9 Orifice Plate Differential Pressure Typical Range = 0.5 - 1.0

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
8	0.44	1

CRITICAL DEVICE/ALARM TESTING

Test the following critical alarms (note that the system must be in AUTO to observe proper alarm response)

Vacuum Transmitter

Corresponding Transmitter/Sensor: *VT-201*

PLC Alarm Name: *VA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Flow Transmitter

Corresponding Transmitter/Sensor: *FT-301*

PLC Alarm Name: *FA_301*

Alarm Type: ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Pressure Transmitter

Corresponding Transmitter/Sensor: *PT-201*

PLC Alarm Name: *PA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-201*

PLC Alarm Name: *TA_201*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-301*

PLC Alarm Name: *TA_301*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Air Water Separator High Level Switch

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *AWS_HI*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to tank until level switch was triggered.

Air Water Separator High-High Level Switch

Corresponding Transmitter/Sensor: *LSHH-201*

PLC Alarm Name: *AWS_HH*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Added additional water to tank until level switch was triggered.

Wet Floor Sensor

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *FLRWET*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to sensor to trigger alarm.

CRITICAL DEVICE CORRECTIVE ACTION LOG SHEET

Date 7/2/2025 Time 1340

Critical Device Failure:

None

Device Failure:

None

Corrective Action:

None

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 8/4/2025 Time: 1212

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL": (•) Auto ( ) Manual

Alarms? (list): none

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-79.1	(in. W.C.)
Post-Blower Temperature	TI-201	98	(°F)	TT-201	212.0	(°F)
Post-Heat Exchanger Temperature	TI-301	90	(°F)	TT-301	88.9	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.35	(in. W.C.)	FT-301	132	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.3	(in. W.C)
Post-Filter Applied Vacuum	VI-202	-6	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	3	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 79

Ambient Indoor Temperature (°F): 76

Barometric Pressure (in Hg): 30.17

Barometric Pressure Trend: ( ) Rising (•) Falling ( ) Other

ADDITIONAL DATA

VFD Frequency (Hz): 50

Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm): 3064 (fpm)

263.5 (cfm)

Note position of HX-300 H-O-A switch: off

Electrical meter reading (KWH): SSDS - 62756 GW - 157589

Surge protector operational? (•) Yes ( ) No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge ( ) Yes (•) No

Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301: closed

BFV-302: closed

BFV-303: open

Notes:

Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position ☑ Yes ☐ No

☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps? (•) Yes ( ) No

How much in West? 22 East? 0

Other notes: damp floor around western sump

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	remains off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	KO Hi and KO Hi Hi lamps don't work	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 9/5/2025 Time: 1030

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL": (•) Auto ( ) Manual

Alarms? (list): none

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-78.6	(in. W.C.)
Post-Blower Temperature	TI-201	206	(°F)	TT-201	209.1	(°F)
Post-Heat Exchanger Temperature	TI-301	96	(°F)	TT-301	85.1	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.36	(in. W.C.)	FT-301	122	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.0	(in. W.C)
Post-Filter Applied Vacuum	VI-202	-6	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	3	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 79

Ambient Indoor Temperature (°F): 76

Barometric Pressure (in Hg): 29.87

Barometric Pressure Trend: ( ) Rising (•) Falling ( ) Other

ADDITIONAL DATA

VFD Frequency (Hz): 50

Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm): 3338 (fpm)

287.1 (cfm)

Note position of HX-300 H-O-A switch: off

Electrical meter reading (KWH): SSDS - 68824 GW - 157736

Surge protector operational? (●) Yes ( ) No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge ( ) Yes (●) No

Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301: closed

BFV-302: closed

BFV-303: open

Notes:

Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position ☑ Yes ☐ No

☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps? (●) Yes ( ) No

How much in West? 22 East? 1

Other notes

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	remains off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	KO Hi and KO Hi Hi lamps don't work	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 10/6/2025 Time: 1000

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL": (◉) Auto ( ) Manual

Alarms? (list): None

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-79.8	(in. W.C.)
Post-Blower Temperature	TI-201	208	(°F)	TT-201	209.8	(°F)
Post-Heat Exchanger Temperature	TI-301	84	(°F)	TT-301	83.5	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.34	(in. W.C.)	FT-301	117	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.1	(in. W.C)
Post-Filter Applied Vacuum	VI-202	-10	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	3	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 69

Ambient Indoor Temperature (°F): 72

Barometric Pressure (in Hg): 30.21

Barometric Pressure Trend: ( ) Rising (◉) Falling ( ) Other

ADDITIONAL DATA

VFD Frequency (Hz)	50
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	2842 (fpm)
	244.412 (cfm)
Note position of HX-300 H-O-A switch	Off
Electrical meter reading (KWH)	SSDS- 75123 GW - 157929
Surge protector operational?	◉ Yes ○ No

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No
How much in West?	22 inches East? 0 inches
Other notes	

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 10/6/2025 Time: 1000

Technician: Liam Whalen

VAPOR SAMPLING LOCATION

PID Tag: *SP-303* Time: 1052

Vapor Sample Collected? (●) Yes ( ) No

Condensate Present in Sample? ( ) Yes (●) No

Canister #	Canister Vacuum at Start (in. Hg)	Canister Vacuum at End (in. Hg)
3544	-29.33	-3.94

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

24 HOUR CONTINUOUS SUBSLAB MONITORING SCHEDULE

VMP Location	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
VMP-1A	X	X	X	X
VMP-1B				X
VMP-1C			X	
VMP-2A	X			
VMP-2B		X		
VMP-2C				X
VMP-3A	X			
VMP-3B		X		
VMP-3C			X	
VMP-3D			X	
VMP-3E	X	X	X	X
VMP-4	X			
VMP-5			X	
VMP-5A	X			
VMP-5B		X		
VMP-6			X	
VMP-6A				X
VMP-6B		X		
VMP-7				X
VMP-7A	X			X
VMP-7B		X		
VMP-8A	X			
VMP-8B		X		
VMP-8C	X		X	X
VMP-8D				X

VACUUM MONITORING POINTS -- DIFFERENTIAL PRESSURE (in. W.C.)

VMP-1A	VMP-1B	VMP-1C
-0.009	-0.266	-0.101
VMP-2A	VMP-2B	VMP-2C
-0.066	-0.104	-0.113
VMP-3A	VMP-3B	VMP-3C
-0.094	-0.014	-0.045
VMP-3D	VMP-3E	VMP-4
-0.030	-0.022	-0.104
VMP-5	VMP-5A	VMP-5B
-0.450	-0.050	-0.030
VMP-6	VMP-6A	VMP-6B
-0.151	-0.162	-0.079
VMP-7	VMP-7A	VMP-7B
-0.198	-10.0	-0.123
VMP-8A	VMP-8B	VMP-8C
-0.546	-2.933	-0.055
VMP-8D		
-0.095		

Definitions: NR= Not Recorded
SP = Sample Port
PID = Piping and Instrumentation Design
in. Hg. - inches of mercury
SDS = Sub-Slab Depressurization Sump
VOCs = Volatile Organic Compounds
VMP = Vacuum Monitoring Point

SUB-SLAB DEPRESSURIZATION SUMPS

SDS-1 Orifice Plate Differential Pressure Typical Range = 0.03-0.07

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-80	0.005	7

SDS-2 Orifice Plate Differential Pressure Typical Range = 0.02-0.09

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-2	0.02	1

SDS-3 Orifice Plate Differential Pressure Typical Range = 0.2-1.1

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-2.8	0.40	1

SDS-4 Orifice Plate Differential Pressure Typical Range = 0.80-2.3

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-9	2.0	1

SDS-5 Orifice Plate Differential Pressure Typical Range = 0.08-0.30

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-63	1.5	1

SDS-6 Orifice Plate Differential Pressure Typical Range = 0.02-0.08

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-79	0.005	2

SDS-7 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-79	0.01	7

SDS-8 Orifice Plate Differential Pressure Typical Range = 0.02-0.04

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-78	0.07	6

SDS-9 Orifice Plate Differential Pressure Typical Range = 0.5 - 1.0

Induced Vacuum (in. W.C.)	Orifice Plate Differential Pressure (in. W.C)	FCV Position (turns open)
-8	0.45	1

CRITICAL DEVICE/ALARM TESTING

Test the following critical alarms (note that the system must be in AUTO to observe proper alarm response)

Vacuum Transmitter

Corresponding Transmitter/Sensor: *VT-201*

PLC Alarm Name: *VA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Flow Transmitter

Corresponding Transmitter/Sensor: *FT-301*

PLC Alarm Name: *FA_301*

Alarm Type: ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Pressure Transmitter

Corresponding Transmitter/Sensor: *PT-201*

PLC Alarm Name: *PA_201*

Alarm Type: (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-201*

PLC Alarm Name: *TA_201*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Temperature Transmitter

Corresponding Transmitter/Sensor: *TT-301*

PLC Alarm Name: *TA_301*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Moved the setpoint to trigger alarm.

Air Water Separator High Level Switch

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *AWS_HI*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to tank until level switch was triggered.

Air Water Separator High-High Level Switch

Corresponding Transmitter/Sensor: *LSHH-201*

PLC Alarm Name: *AWS_HH*

Alarm Type (●) Fatal ( ) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? (●) Yes ( ) No

Passed (●) Yes ( ) No

Notes: Added additional water to tank until level switch was triggered.

Wet Floor Sensor

Corresponding Transmitter/Sensor: *LSH-201*

PLC Alarm Name: *FLRWET*

Alarm Type ( ) Fatal (●) Non-Fatal

Caused PLC Alarm State Change? (●) Yes ( ) No

Caused System Shutdown? ( ) Yes (●) No

Passed (●) Yes ( ) No

Notes: Added water to sensor to trigger alarm.

CRITICAL DEVICE CORRECTIVE ACTION LOG SHEET

Date 10/6/2025 Time 1000

Critical Device Failure:

None

Device Failure:

None

Corrective Action:

None

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 11/4/2025 Time: 1015

Technician: Liam Whalen

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" — ◉ Auto ○ Manual

Alarms? (list): FL 302

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-92	(in. W.C.)	VT-201	-81.3	(in. W.C.)
Post-Blower Temperature	TI-201	200	(°F)	TT-201	200.7	(°F)
Post-Heat Exchanger Temperature	TI-301	64	(°F)	TT-301	64.5	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.29	(in. W.C.)	FT-301	99	(cfm)
Post-Blower Pressure	PI-201	1	(in. W.C.)	PT-201	1.0	(in. W.C)
Post-Filter Applied Vacuum	VI-202	-10	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	1	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	3	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 50

Ambient Indoor Temperature (°F): 62.5

Barometric Pressure (in Hg): 30.03

Barometric Pressure Trend: ◉ Rising ○ Falling ○ Other

ADDITIONAL DATA

VFD Frequency (Hz)	50	
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	1910	(fpm)
	164.26	(cfm)
Note position of HX-300 H-O-A switch	Off	
Electrical meter reading (KWH)	SSDS- 81083 GW - 158552	
Surge protector operational?	◉ Yes ○ No	

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No		
How much in West?	22 inches	East?	0 inches
Other notes			

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi Lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

OM&M Log Sheet, Sub-Slab Depressurization System, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

Date: 12/17/25 Time: 15:24

Technician: Matthew Zerkle

*When on site for other routine **monthly** OM&M, record data included on **pages 1 -5** of this quarterly OM&M Log Sheet/Checklist*

SYSTEM STATUS

System operational? (PLC screen indicating system in "AUTO" or "MANUAL" ◉ Auto ○ Manual

Alarms? (list): N/A

SYSTEM PARAMETER	ID	GAUGE READING		PID TAG	PLC READING	
Air/Water Tank Applied Vacuum	VI-201	-94	(in. W.C.)	VT-201	-80.3	(in. W.C.)
Post-Blower Temperature	TI-201	189	(°F)	TT-201	189.3	(°F)
Post-Heat Exchanger Temperature	TI-301	50	(°F)	TT-301	46.9	(°F)
Influent Pitot Tube Differential Pressure	FI-301	0.26	(in. W.C.)	FT-301	85	(cfm)
Post-Blower Pressure	PI-201	1.1	(in. W.C.)	PT-201	1.4	(in. W.C)
Post-Filter Applied Vacuum	VI-202	-18	(in. W.C.)			
Pre-Discharge Stack Pressure	PI-301	0	(in. W.C.)			
Post-Discharge Stack Pressure	PI-302	2	(in. W.C.)			

METEORLOGICAL DATA

Ambient Outdoor Temperature (°F): 38

Ambient Indoor Temperature (°F): 42

Barometric Pressure (in Hg): 29.83

Barometric Pressure Trend ○ Rising ○ Falling ◉ Other: Steady

ADDITIONAL DATA

VFD Frequency (Hz)	50	
Influent Vapor Velocity (from VI-202 location, 1 fpm = 0.086 cfm)	1438	(fpm)
	123.6	(cfm)
Note position of HX-300 H-O-A switch	Off	
Electrical meter reading (KWH)	SSDS- 90050 GW- 169594	
Surge protector operational?	◉ Yes ○ No	

SYSTEM WATER/CONDENSATE INSPECTION

Was water present in AWS-200 site gauge	○ Yes ◉ No
Note if AWS-200 or any other normally closed condensate drain component was drained. Estimate quantity.	

VALVE INSPECTION

Note position of BFV-301, 302 and 303:

BFV-301	Closed
BFV-302	Closed
BFV-303	Open
Notes:	
Are condensate drain valves for AWS-200, VPGAC-301 and VPGAC-302 in closed position	☑ Yes ☐ No ☐ Notes

BASEMENT PUMP INSPECTION

Water present in sumps?	◉ Yes ○ No		
How much in West?	22 inches	East?	0 inches
Other notes			

Critical System Device	Location			
MCC/MCP Mounted Equipment				
System Disconnect	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Blower O-H-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Heat Exchanger H-O-A Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:	Remains Off	
VFD By-Pass Switch	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
UPS Backup Battery(1)	Inside MCP	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes:		
Panel Indicator Lights	MCC Door	Inspected/Tested?	(•) Yes ( ) No	(•) Pass ( ) Fail
		Notes	No KOHi, KO Hi- Hi lamps	
Electrical Hazard Signage	Outside/ Inside MCP and MCC	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Electric meter	Adjacent to MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		
Surge Protection Device	Outside MCC Door	Inspected/Tested?	(•) Yes ( ) No	
		Notes:		

Process Equipment

Vacuum Relief Valve (VRV-200)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		
Filter Element (2)	Pre-Blower	Inspected/Tested?	◉ Yes ○ No	◉ Pass ○ Fail
		Notes:		

Field Mounted Equipment

System Exhaust Screen	Post-VPGAC	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Process Valve Locks/ Positions (3)	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Post Blower Piping Connections	Skid/Field	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Heat Trace (4)	AWS-200 VPGAC-301 VPGAC-302 Condensate Drains	Inspected/Tested?	◉ Yes ○ No
		Notes:	
Fire Extinguisher	Treatment Building Primary Entry/Exit Doorway	Inspected/Tested?	◉ Yes ○ No
		Notes:	
System Vapor Element Stack	Located on north building exterior wall	Inspected/Tested?	◉ Yes ○ No
		Notes:	

Definitions:

AWS = Air/Water Separator
MCC = Motor Control Center

MCP = Main Control Panel
VPGAC = Vapor Phase Granular Activated Carbon

VT = Vacuum Transmitter
FT = Flow Transmitter

LS = Level Sensor

B = Blower

NA = Not Applicable

VRV = Vacuum Relief Valve

Notes:

1 - UPS battery backup should be replaced at a minimum, annually or as needed

2 - Filter element F-201 should be replaced at a minimum, annually or as needed

3 - Equipment locations can be found on the process and instrumentation diagram

4 - Heat trace is only used during winter months

Completed OM&M Log Sheets

Appendix A-2

SSDS Alarm Response Logs

SSDS Alarm Response Tracking Table 2025
Former Lockheed Martin French Road Facility, Utica, NY

Alarm Date/Time	Process Code	Type	Alarm Description	Input	Output	Response Date/Time	Response Time (hours)	Response Type	System Restarted Date/Time	Downtime (days)	Site Visit Date	Time Onsite (hours)	Cause Type	Cause Description	Corrective Action Description
2/3/2025 14:30	17	fatal/shutdown	Low Vacuum	VT-201	VA_201	2/5/2025 9:30	43.0	Site Visit	2/5/2025 14:30	2	2/5/2025 9:30	> 2 hours	Other	Received Fatal Alarm	The system would not restart after the monthly check on 2/3/2025. A site visit was performed on 2/5/2025 to restart the system and after multiple attempts and draining water from a drain tube to the A/W Separator at VT-201, system eventually re-started.
2/7/2025 19:14	23	fatal/shutdown	High Post-Blower Pressure	PT-201	PA_201	2/10/2025 8:30	61.3	Site Visit	2/10/2025 9:53	2.61	2/10/2025 8:30	> 2 hours	Other	Received Fatal Alarm	A site visit was performed on 2/10/2025 after a large storm prevented travel to the site on 2/8/2025 and 2/9/2025. Eventually able to restart the system after identifying data logged high pressure conditions at VT-201 and raising pressure limit to keep system running. Subsequently routed discharge around heat exchanger and shut down heat exchanger to reduce future chances of stack ice build-up.
5/13/2025 16:11	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	5/13/2025 16:15	0.1	Remote Monitoring	5/13/2025 17:02	0.04		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >200 Deg F. Ultimately raised set point to 220 Deg F to allow for hotter run temps in Summer month and reset/re-started remotely.
6/23/2025 18:37	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	6/24/2025 8:30	13.9	Remote Monitoring	6/24/2025 8:30	0.58		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >220 Deg F due to high ambient temperatures (>95 Degree ambient temperature) system was restarted remotely the next morning during cooler ambient temperatures
6/24/2025 16:10	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	6/25/2025 8:15	16.1	Remote Monitoring	6/25/2025 8:15	0.67		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >220 Deg F due to high ambient temperatures (>95 Degree ambient temperature) system was restarted remotely the next morning during cooler ambient temperatures
7/7/2025 15:21	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	7/7/2025 17:01	1.7	Remote Monitoring	7/7/2025 17:01	0.07		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >220 Deg F due to high ambient temperatures (>85 Degree ambient temperature) system was restarted remotely later that day during cooler ambient temperatures
7/12/2025 5:15	OTHER_SYS OFF	fatal/shutdown	ACFAIL	NA	NA	7/14/2025 8:30	51.2	Remote Monitoring	7/14/2025 8:30	2.14		None	Power Failure	Received Fatal Alarm	Received fatal alarm ACFAIL due to potential power outage on Saturday evening, system was restarted remotely on Monday morning and operated normally.
7/29/2025 18:23	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	7/31/2025 8:30	38.1	Remote Monitoring	7/31/2025 8:30	1.59		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >220 Deg F due to high ambient temperatures (>85 Degree ambient temperature) system was restarted remotely the morning after the following day during cooler ambient temperatures
8/11/2025 18:41	10	fatal/shutdown	High Post-Blower Temperature	TT-201	TA_201	8/12/2025 10:02	15.4	Remote Monitoring	8/12/2025 10:02	0.64		None	Other	Received Fatal Alarm	Received fatal alarm blower effluent temperature >220 Deg F due to high ambient temperatures (>85 Degree ambient temperature) system was restarted remotely the morning after the following day during cooler ambient temperatures
8/20/2025 7:52	OTHER_SYS OFF	fatal/shutdown	ACFAIL	NA	NA	8/20/2025 8:41	0.8	Remote Monitoring	8/20/2025 8:41	0.03		None	Other	Received Fatal Alarm	Received fatal alarm ACFAIL due to power interruption to the system, system was restarted remotely and operated normally.
8/20/2025 10:58	OTHER_SYS OFF	fatal/shutdown	ACFAIL	NA	NA	8/21/2025 16:10	29.2	Site Visit	8/21/2025 16:10	1.22	8/21/2025 16:10	None	Other	Received Fatal Alarm	Received fatal alarm ACFAIL due to power interruption to the system, Site Contact confirmed power loss at facility, power was not restored until 8/21 afternoon (confirmed by Site Contact), remote comm failed to connect which prompted a Site visit, system was manually restarted 8/21/2025 and remote com was reestablished the following morning on 8/22/2025.
12/17/2025 12:48	OTHER_SYS OFF	fatal/shutdown	ACFAIL	NA	NA	12/17/2025 12:48	0.0	Site Visit	12/17/2025 15:20	0.11	12/17/2025 11:47	> 2 hours	Power Failure	Temporary loss of power to UPS when switching PLC and modem	Was at the site for PLC and modem switch. ConMed assisted in restoring power

Blue shading = dropdown list
Gray shading = calculated

Appendix A-3

SSDS Laboratory Analytical Reports

ANALYTICAL REPORT

Lab Number:	L2500868
Client:	HRP Associates, Inc. 1 Fairchild Square Suite 110 Clifton Park, NY 12065
ATTN:	Kim Baines
Phone:	(518) 877-7101
Project Name:	FORMER LOCKHEED MARTIN SITE
Project Number:	HRP-TET3002.EE
Report Date:	01/22/25

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2500868-01	SP-303 EFFLUENT	SOIL_VAPOR	Not Specified	01/06/25 11:05	01/07/25

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2500868
Project Number:	HRP-TET3002.EE	**Report Date:**	01/22/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2500868
Project Number:	HRP-TET3002.EE	**Report Date:**	01/22/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 2, 2025. The canister certification data is provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The WG2022179-3 LCS recovery for chloromethane (66%) is outside the 70%-130% acceptance limit. The CC was within overall method allowances, therefore the analysis proceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 01/22/25

AIR

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

SAMPLE RESULTS

Lab ID: L2500868-01
Client ID: SP-303 EFFLUENT
Sample Location:

Date Collected: 01/06/25 11:05
Date Received: 01/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/22/25 05:48
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.888	0.200	0.076	4.39	0.989	0.374		1
Chloromethane	0.242	0.200	0.058	0.500	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	2.96	5.00	1.74	5.58	9.42	3.28	J	1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	14.0	1.00	0.515	33.3	2.38	1.22		1
Trichlorofluoromethane	0.269	0.200	0.079	1.51	1.12	0.442		1
Isopropanol	47.1	1.00	0.272	116	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	15.5	0.500	0.125	53.8	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	0.116	0.200	0.047	0.361	0.623	0.145	J	1
Freon-113	0.191	0.200	0.051	1.46	1.53	0.388	J	1
trans-1,2-Dichloroethene	0.313	0.200	0.076	1.24	0.793	0.299		1
1,1-Dichloroethane	0.070	0.200	0.057	0.283	0.809	0.230	J	1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	0.232	0.500	0.099	0.684	1.47	0.292	J	1
cis-1,2-Dichloroethene	0.331	0.200	0.060	1.31	0.793	0.236		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

SAMPLE RESULTS

Lab ID: L2500868-01
Client ID: SP-303 EFFLUENT
Sample Location:

Date Collected: 01/06/25 11:05
Date Received: 01/07/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	2.37	0.200	0.055	11.6	0.977	0.270		1
Tetrahydrofuran	0.482	0.500	0.117	1.42	1.47	0.345	J	1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	0.198	0.200	0.061	1.08	1.09	0.335	J	1
Benzene	0.085	0.200	0.064	0.272	0.639	0.205	J	1
Carbon tetrachloride	0.106	0.200	0.069	0.667	1.26	0.432	J	1
Cyclohexane	1.32	0.200	0.073	4.54	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	1.47	0.200	0.055	7.90	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	0.137	0.200	0.083	0.561	0.820	0.339	J	1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	0.154	0.200	0.087	0.580	0.754	0.327	J	1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	7.52	0.200	0.063	51.0	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

SAMPLE RESULTS

Lab ID: L2500868-01
Client ID: SP-303 EFFLUENT
Sample Location:

Date Collected: 01/06/25 11:05
Date Received: 01/07/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.145	0.400	0.125	0.630	1.74	0.543	J	1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	0.087	0.200	0.062	0.378	0.869	0.270	J	1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.190	0.059	ND	0.996	0.309		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE
Lab Number: L2500868
Report Date: 01/22/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/21/25 15:51

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2022179-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE
Lab Number: L2500868
Report Date: 01/22/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/21/25 15:51

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2022179-4								
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE
Lab Number: L2500868
Report Date: 01/22/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/21/25 15:51

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2022179-4								
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.190	0.059	ND	0.996	0.309		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2022179-3					
Dichlorodifluoromethane	71		-		70-130	-		
Chloromethane	**66**	Q	-		70-130	-		
Freon-114	76		-		70-130	-		
Vinyl chloride	80		-		70-130	-		
1,3-Butadiene	75		-		70-130	-		
Bromomethane	87		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethanol	80		-		40-160	-		
Vinyl bromide	91		-		70-130	-		
Acetone	100		-		40-160	-		
Trichlorofluoromethane	97		-		70-130	-		
Isopropanol	86		-		40-160	-		
1,1-Dichloroethene	118		-		70-130	-		
Tertiary butyl Alcohol	112		-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	110		-		70-130	-		
Freon-113	109		-		70-130	-		
trans-1,2-Dichloroethene	122		-		70-130	-		
1,1-Dichloroethane	114		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
2-Butanone	103		-		70-130	-		
cis-1,2-Dichloroethene	119		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2022179-3					
Ethyl Acetate	**134**	Q	-		70-130	-		
Chloroform	116		-		70-130	-		
Tetrahydrofuran	103		-		70-130	-		
1,2-Dichloroethane	113		-		70-130	-		
n-Hexane	115		-		70-130	-		
1,1,1-Trichloroethane	99		-		70-130	-		
Benzene	100		-		70-130	-		
Carbon tetrachloride	112		-		70-130	-		
Cyclohexane	118		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	123		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	118		-		70-130	-		
Heptane	99		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	116		-		70-130	-		
1,1,2-Trichloroethane	103		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2022179-3					
Tetrachloroethene	94		-		70-130	-		
Chlorobenzene	98		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	123		-		70-130	-		
Styrene	103		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	103		-		70-130	-		
4-Ethyltoluene	109		-		70-130	-		
1,3,5-Trimethylbenzene	107		-		70-130	-		
1,2,4-Trimethylbenzene	106		-		70-130	-		
Benzyl chloride	114		-		70-130	-		
1,3-Dichlorobenzene	109		-		70-130	-		
1,4-Dichlorobenzene	109		-		70-130	-		
1,2-Dichlorobenzene	101		-		70-130	-		
1,2,4-Trichlorobenzene	95		-		70-130	-		
Naphthalene	124		-		70-130	-		
Hexachlorobutadiene	93		-		70-130	-		

Project Name: FORMER LOCKHEED MARTIN SITE

Lab Number: L2500868

Project Number: HRP-TET3002.EE

Report Date: 01/22/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check		Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2500868-01	SP-303 EFFLUENT	01735	Flow 1	01/02/25	501307		-	-		-	Pass	145	143	1
L2500868-01	SP-303 EFFLUENT	135	2.7L Can	01/02/25	501307	L2474754-02	Pass		-29.2	-8.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/19/24 17:06
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/19/24 17:06
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2474754
Report Date: 01/22/25

Air Canister Certification Results

Lab ID: L2474754-02
Client ID: CAN 403 SHELF 79
Sample Location:

Date Collected: 12/18/24 16:00
Date Received: 12/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: HRP-TET3002.EE

Lab Number: L2500868
Report Date: 01/22/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2500868-01A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2500868
Project Number:	HRP-TET3002.EE	**Report Date:**	01/22/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2500868
Project Number:	HRP-TET3002.EE	**Report Date:**	01/22/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2500868
Project Number:	HRP-TET3002.EE	**Report Date:**	01/22/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Alpha SOP 23528

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Project Manager.

Serial_No:01222517:58

AIR ANALYSIS

PAGE ____ OF ____

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/8/25

ALPHA Job #: L2500868

Client Information

Client: Tetratech Inc
Address: 990A Wald Rd. Suite 302
Annapolis MD 21403
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Former Lockheed Martin Site
Project Location:
Project #: HRP-TET3002.EE
Project Manager: Kim Baines
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)
kim.baines@hrpassociates.com

Billing Information

☐ Same as Client info PO #:
Invoice to Peter Rich
peter.rich@tetratech.com

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
00868-01	SP-303Effluent	1/6/25	10:55	11:05	-30.53	-9.90	SV	LW	2.7L	135	G1735	X						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Sean Whalen	1/7/25 2020	Secured Storage	1/7/25 2020
Secured Storage	1/7/25 2145		1/7/25 2145
	1/7/25 2145		1/8/25 2230
	1/8/25 0050		1/8/25 0050

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2524534
Client:	HRP Associates, Inc. 1 Fairchild Square Suite 110 Clifton Park, NY 12065
ATTN:	Kim Baines
Phone:	(518) 877-7101
Project Name:	FORMER LOCKHEED MARTIN SITE
Project Number:	Not Specified
Report Date:	05/07/25

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2524534-01	SP-303 EFFLUENT	SOIL_VAPOR	525 FRENCH ROAD, UTICA, NY	04/17/25 14:08	04/17/25

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2524534
Project Number:	Not Specified	**Report Date:**	05/07/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER LOCKHEED MARTIN SITE **Lab Number:** L2524534
Project Number: Not Specified **Report Date:** 05/07/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 17, 2025. The canister certification data is provided as an addendum.

L2524534-01D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

The WG2062661-3 LCS recovery associated with L2524534-01D is below the acceptance limit for vinyl acetate (51%). All samples associated with this LCS that have reportable amounts of this analyte wlll be reported with low bias.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 05/07/25

AIR

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

SAMPLE RESULTS

Lab ID: L2524534-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 04/17/25 14:08
Date Received: 04/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/06/25 12:10
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.626	0.396	--	3.10	1.96	--		1.98
Chloromethane	ND	0.396	--	ND	0.818	--		1.98
Freon-114	ND	0.396	--	ND	2.77	--		1.98
Vinyl chloride	ND	0.396	--	ND	1.01	--		1.98
1,3-Butadiene	ND	0.396	--	ND	0.876	--		1.98
Bromomethane	ND	0.396	--	ND	1.54	--		1.98
Chloroethane	ND	0.396	--	ND	1.04	--		1.98
Ethanol	13.9	9.90	--	26.2	18.7	--		1.98
Vinyl bromide	ND	0.396	--	ND	1.73	--		1.98
Acetone	32.2	1.98	--	76.5	4.70	--		1.98
Trichlorofluoromethane	ND	0.396	--	ND	2.23	--		1.98
Isopropanol	148	1.98	--	364	4.87	--		1.98
1,1-Dichloroethene	ND	0.396	--	ND	1.57	--		1.98
Tertiary butyl Alcohol	ND	0.990	--	ND	3.00	--		1.98
Methylene chloride	25.9	0.990	--	90.0	3.44	--		1.98
3-Chloropropene	ND	0.396	--	ND	1.24	--		1.98
Carbon disulfide	ND	0.396	--	ND	1.23	--		1.98
Freon-113	ND	0.396	--	ND	3.04	--		1.98
trans-1,2-Dichloroethene	ND	0.396	--	ND	1.57	--		1.98
1,1-Dichloroethane	ND	0.396	--	ND	1.60	--		1.98
Methyl tert butyl ether	ND	0.396	--	ND	1.43	--		1.98
2-Butanone	ND	0.990	--	ND	2.92	--		1.98
cis-1,2-Dichloroethene	ND	0.396	--	ND	1.57	--		1.98

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

SAMPLE RESULTS

Lab ID: L2524534-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 04/17/25 14:08
Date Received: 04/17/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.990	--	ND	3.57	--		1.98
Chloroform	1.29	0.396	--	6.30	1.93	--		1.98
Tetrahydrofuran	ND	0.990	--	ND	2.92	--		1.98
1,2-Dichloroethane	ND	0.396	--	ND	1.60	--		1.98
n-Hexane	7.86	0.396	--	27.7	1.40	--		1.98
1,1,1-Trichloroethane	ND	0.396	--	ND	2.16	--		1.98
Benzene	ND	0.396	--	ND	1.27	--		1.98
Carbon tetrachloride	ND	0.396	--	ND	2.49	--		1.98
Cyclohexane	1.68	0.396	--	5.78	1.36	--		1.98
1,2-Dichloropropane	ND	0.396	--	ND	1.83	--		1.98
Bromodichloromethane	ND	0.396	--	ND	2.65	--		1.98
1,4-Dioxane	ND	0.396	--	ND	1.43	--		1.98
Trichloroethene	1.13	0.396	--	6.07	2.13	--		1.98
2,2,4-Trimethylpentane	ND	0.396	--	ND	1.85	--		1.98
Heptane	0.940	0.396	--	3.85	1.62	--		1.98
cis-1,3-Dichloropropene	ND	0.396	--	ND	1.80	--		1.98
4-Methyl-2-pentanone	ND	0.990	--	ND	4.06	--		1.98
trans-1,3-Dichloropropene	ND	0.396	--	ND	1.80	--		1.98
1,1,2-Trichloroethane	ND	0.396	--	ND	2.16	--		1.98
Toluene	0.497	0.396	--	1.87	1.49	--		1.98
2-Hexanone	ND	0.396	--	ND	1.62	--		1.98
Dibromochloromethane	ND	0.396	--	ND	3.37	--		1.98
1,2-Dibromoethane	ND	0.396	--	ND	3.04	--		1.98
Tetrachloroethene	6.06	0.396	--	41.1	2.69	--		1.98
Chlorobenzene	ND	0.396	--	ND	1.82	--		1.98
Ethylbenzene	ND	0.396	--	ND	1.72	--		1.98

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2524534
Report Date: 05/07/25

SAMPLE RESULTS

Lab ID: L2524534-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 04/17/25 14:08
Date Received: 04/17/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	ND	0.792	--	ND	3.44	--		1.98
Bromoform	ND	0.396	--	ND	4.09	--		1.98
Styrene	ND	0.396	--	ND	1.69	--		1.98
1,1,2,2-Tetrachloroethane	ND	0.396	--	ND	2.72	--		1.98
o-Xylene	ND	0.396	--	ND	1.72	--		1.98
4-Ethyltoluene	ND	0.396	--	ND	1.95	--		1.98
1,3,5-Trimethylbenzene	ND	0.396	--	ND	1.95	--		1.98
1,2,4-Trimethylbenzene	ND	0.396	--	ND	1.95	--		1.98
Benzyl chloride	ND	0.396	--	ND	2.05	--		1.98
1,3-Dichlorobenzene	ND	0.396	--	ND	2.38	--		1.98
1,4-Dichlorobenzene	ND	0.396	--	ND	2.38	--		1.98
1,2-Dichlorobenzene	ND	0.396	--	ND	2.38	--		1.98
1,2,4-Trichlorobenzene	ND	0.396	--	ND	2.94	--		1.98
Naphthalene	ND	0.376	--	ND	1.97	--		1.98
Hexachlorobutadiene	ND	0.396	--	ND	4.22	--		1.98

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2524534
Report Date: 05/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/05/25 19:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2062661-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2524534
Report Date: 05/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/05/25 19:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2062661-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2524534
Report Date: 05/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/05/25 19:07

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2062661-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2062661-3					
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	101		-		70-130	-		
Freon-114	119		-		70-130	-		
Vinyl chloride	111		-		70-130	-		
1,3-Butadiene	100		-		70-130	-		
Bromomethane	118		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethanol	93		-		40-160	-		
Vinyl bromide	102		-		70-130	-		
Acetone	109		-		40-160	-		
Trichlorofluoromethane	109		-		70-130	-		
Isopropanol	102		-		40-160	-		
1,1-Dichloroethene	118		-		70-130	-		
Tertiary butyl Alcohol	94		-		70-130	-		
Methylene chloride	111		-		70-130	-		
3-Chloropropene	100		-		70-130	-		
Carbon disulfide	112		-		70-130	-		
Freon-113	112		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	80		-		70-130	-		
2-Butanone	90		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2062661-3					
Ethyl Acetate	96		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	106		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Benzene	108		-		70-130	-		
Carbon tetrachloride	103		-		70-130	-		
Cyclohexane	102		-		70-130	-		
1,2-Dichloropropane	109		-		70-130	-		
Bromodichloromethane	110		-		70-130	-		
1,4-Dioxane	107		-		70-130	-		
Trichloroethene	107		-		70-130	-		
2,2,4-Trimethylpentane	107		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	113		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	121		-		70-130	-		
1,1,2-Trichloroethane	113		-		70-130	-		
Toluene	105		-		70-130	-		
2-Hexanone	98		-		70-130	-		
Dibromochloromethane	113		-		70-130	-		
1,2-Dibromoethane	115		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2062661-3					
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	104		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	112		-		70-130	-		
Styrene	108		-		70-130	-		
1,1,2,2-Tetrachloroethane	116		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	108		-		70-130	-		
1,2,4-Trimethylbenzene	111		-		70-130	-		
Benzyl chloride	82		-		70-130	-		
1,3-Dichlorobenzene	113		-		70-130	-		
1,4-Dichlorobenzene	111		-		70-130	-		
1,2-Dichlorobenzene	110		-		70-130	-		
1,2,4-Trichlorobenzene	107		-		70-130	-		
Naphthalene	88		-		70-130	-		
Hexachlorobutadiene	97		-		70-130	-		

Project Name: FORMER LOCKHEED MARTIN SITE

Project Number:

Lab Number: L2524534

Report Date: 05/07/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2524534-01	SP-303 EFFLUENT	4645	1.0L Can	04/17/25	516755	L2520943-09	Pass	-28.8	-7.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/09/25 02:01
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	10.4	5.00	--	13.6	6.55	--	B	1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2520943

Project Number: CANISTER QC BAT **Report Date:** 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	107		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/09/25 02:01
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.030	0.020	--	0.130	0.087	--		1
p/m-Xylene	0.259	0.040	--	1.12	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.040	0.020	--	0.174	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2520943
Report Date: 05/07/25

Air Canister Certification Results

Lab ID: L2520943-09
Client ID: CAN 4624 SHELF 71
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	106		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2524534
Report Date: 05/07/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2524534-01A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2524534
Project Number:	Not Specified	**Report Date:**	05/07/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2524534
Project Number:	Not Specified	**Report Date:**	05/07/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2524534
Project Number:	Not Specified	**Report Date:**	05/07/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/18/25

ALPHA Job #: L2524534

Client Information

Client: Tetra Tech Inc
Address: 980 Auald Rd Suite 302
Annapolis, MD 21403
Phone: 416-350-6491
Fax:
Email: peter.rich@tetratech.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Former Lockheed Martin Site
Project Location: 525 French Road Utica, NY
Project #:
Project Manager: Peter Rich - Tetratech
Kim Baines - HRP
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)
kim.baines@hrpassociates.com

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
24534-01	SP-303 Effluent	4/17/25		1408	-28.80	-10.08	SV	NZ	1L	4645	6071	X						grab sample

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
[redacted] Secured Storage	4/17/25 19:57	Secured Storage	4/17/25 19:57
	4/17/25 2200		4/17/25 2200
[redacted]	4/18/25 0230		4/18 0430
[redacted] 4/18/25 0610		[redacted] 4/18/25 0430	[redacted] 4/18/25 0610

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2541773
Client:	HRP Associates, Inc. 1 Fairchild Square Suite 110 Clifton Park, NY 12065
ATTN:	Kim Baines
Phone:	(518) 877-7101
Project Name:	FORMER LOCKHEED MARTIN SITE
Project Number:	Not Specified
Report Date:	07/18/25

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2541773-01	SP-303 EFFLUENT	SOIL_VAPOR	525 FRENCH ROAD, UTICA, NY	07/02/25 15:00	07/03/25

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2541773
Project Number:	Not Specified	**Report Date:**	07/18/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2541773
Project Number:	Not Specified	**Report Date:**	07/18/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 27, 2025. The canister certification data is provided as an addendum.

L2541773-01D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/18/25

AIR

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

SAMPLE RESULTS

Lab ID: L2541773-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 07/02/25 15:00
Date Received: 07/03/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/18/25 03:55
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.871	0.560	--	4.31	2.77	--		2.802
Chloromethane	ND	0.560	--	ND	1.16	--		2.802
Freon-114	ND	0.560	--	ND	3.91	--		2.802
Vinyl chloride	ND	0.560	--	ND	1.43	--		2.802
1,3-Butadiene	ND	0.560	--	ND	1.24	--		2.802
Bromomethane	ND	0.560	--	ND	2.17	--		2.802
Chloroethane	ND	0.560	--	ND	1.48	--		2.802
Ethanol	ND	14.0	--	ND	26.4	--		2.802
Vinyl bromide	ND	0.560	--	ND	2.45	--		2.802
Acetone	33.0	2.80	--	78.4	6.65	--		2.802
Trichlorofluoromethane	3.25	0.560	--	18.3	3.15	--		2.802
Isopropanol	106	2.80	--	261	6.88	--		2.802
1,1-Dichloroethene	ND	0.560	--	ND	2.22	--		2.802
Tertiary butyl Alcohol	ND	1.40	--	ND	4.24	--		2.802
Methylene chloride	28.3	1.40	--	98.3	4.86	--		2.802
3-Chloropropene	ND	0.560	--	ND	1.75	--		2.802
Carbon disulfide	ND	0.560	--	ND	1.74	--		2.802
Freon-113	ND	0.560	--	ND	4.29	--		2.802
trans-1,2-Dichloroethene	ND	0.560	--	ND	2.22	--		2.802
1,1-Dichloroethane	ND	0.560	--	ND	2.27	--		2.802
Methyl tert butyl ether	ND	0.560	--	ND	2.02	--		2.802
2-Butanone	1.83	1.40	--	5.40	4.13	--		2.802
cis-1,2-Dichloroethene	ND	0.560	--	ND	2.22	--		2.802

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

SAMPLE RESULTS

Lab ID: L2541773-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 07/02/25 15:00
Date Received: 07/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	1.40	--	ND	5.05	--		2.802
Chloroform	6.07	0.560	--	29.6	2.73	--		2.802
Tetrahydrofuran	4.73	1.40	--	14.0	4.13	--		2.802
1,2-Dichloroethane	ND	0.560	--	ND	2.27	--		2.802
n-Hexane	ND	0.560	--	ND	1.97	--		2.802
1,1,1-Trichloroethane	ND	0.560	--	ND	3.06	--		2.802
Benzene	ND	0.560	--	ND	1.79	--		2.802
Carbon tetrachloride	ND	0.560	--	ND	3.52	--		2.802
Cyclohexane	1.65	0.560	--	5.68	1.93	--		2.802
1,2-Dichloropropane	ND	0.560	--	ND	2.59	--		2.802
Bromodichloromethane	ND	0.560	--	ND	3.75	--		2.802
1,4-Dioxane	ND	0.560	--	ND	2.02	--		2.802
Trichloroethene	1.17	0.560	--	6.29	3.01	--		2.802
2,2,4-Trimethylpentane	ND	0.560	--	ND	2.62	--		2.802
Heptane	1.48	0.560	--	6.07	2.29	--		2.802
cis-1,3-Dichloropropene	ND	0.560	--	ND	2.54	--		2.802
4-Methyl-2-pentanone	ND	1.40	--	ND	5.74	--		2.802
trans-1,3-Dichloropropene	ND	0.560	--	ND	2.54	--		2.802
1,1,2-Trichloroethane	ND	0.560	--	ND	3.06	--		2.802
Toluene	0.714	0.560	--	2.69	2.11	--		2.802
2-Hexanone	ND	0.560	--	ND	2.29	--		2.802
Dibromochloromethane	ND	0.560	--	ND	4.77	--		2.802
1,2-Dibromoethane	ND	0.560	--	ND	4.30	--		2.802
Tetrachloroethene	14.4	0.560	--	97.6	3.80	--		2.802
Chlorobenzene	ND	0.560	--	ND	2.58	--		2.802
Ethylbenzene	ND	0.560	--	ND	2.43	--		2.802

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2541773
Report Date: 07/18/25

SAMPLE RESULTS

Lab ID: L2541773-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 07/02/25 15:00
Date Received: 07/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	ND	1.12	--	ND	4.86	--		2.802
Bromoform	ND	0.560	--	ND	5.79	--		2.802
Styrene	ND	0.560	--	ND	2.38	--		2.802
1,1,2,2-Tetrachloroethane	ND	0.560	--	ND	3.85	--		2.802
o-Xylene	ND	0.560	--	ND	2.43	--		2.802
4-Ethyltoluene	ND	0.560	--	ND	2.75	--		2.802
1,3,5-Trimethylbenzene	ND	0.560	--	ND	2.75	--		2.802
1,2,4-Trimethylbenzene	ND	0.560	--	ND	2.75	--		2.802
Benzyl chloride	ND	0.560	--	ND	2.90	--		2.802
1,3-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.802
1,4-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.802
1,2-Dichlorobenzene	ND	0.560	--	ND	3.37	--		2.802
1,2,4-Trichlorobenzene	ND	0.560	--	ND	4.16	--		2.802
Naphthalene	ND	0.532	--	ND	2.79	--		2.802
Hexachlorobutadiene	ND	0.560	--	ND	5.97	--		2.802

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	117		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	114		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2541773
Report Date: 07/18/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/17/25 18:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2092025-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2541773
Report Date: 07/18/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/17/25 18:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2092025-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2541773
Report Date: 07/18/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/17/25 18:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2092025-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2092025-3					
Dichlorodifluoromethane	113		-		70-130	-		
Chloromethane	101		-		70-130	-		
Freon-114	118		-		70-130	-		
Vinyl chloride	107		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Bromomethane	114		-		70-130	-		
Chloroethane	109		-		70-130	-		
Ethanol	93		-		40-160	-		
Vinyl bromide	112		-		70-130	-		
Acetone	94		-		40-160	-		
Trichlorofluoromethane	108		-		70-130	-		
Isopropanol	90		-		40-160	-		
1,1-Dichloroethene	116		-		70-130	-		
Tertiary butyl Alcohol	109		-		70-130	-		
Methylene chloride	105		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	106		-		70-130	-		
Freon-113	106		-		70-130	-		
trans-1,2-Dichloroethene	107		-		70-130	-		
1,1-Dichloroethane	104		-		70-130	-		
Methyl tert butyl ether	106		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2092025-3					
Ethyl Acetate	111		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	106		-		70-130	-		
1,2-Dichloroethane	103		-		70-130	-		
n-Hexane	104		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	102		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	107		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	112		-		70-130	-		
4-Methyl-2-pentanone	101		-		70-130	-		
trans-1,3-Dichloropropene	122		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	109		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	118		-		70-130	-		
1,2-Dibromoethane	115		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2092025-3					
Tetrachloroethene	109		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	113		-		70-130	-		
1,1,2,2-Tetrachloroethane	110		-		70-130	-		
o-Xylene	110		-		70-130	-		
4-Ethyltoluene	109		-		70-130	-		
1,3,5-Trimethylbenzene	115		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	107		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	98		-		70-130	-		
Hexachlorobutadiene	109		-		70-130	-		

Project Name: FORMER LOCKHEED MARTIN SITE

Project Number:

Lab Number: L2541773

Report Date: 07/18/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2541773-01	SP-303 EFFLUENT	1507	1.0L Can	06/27/25	526042	L2536357-10	Pass	-29.5	-7.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/12/25 00:36
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2536357

Project Number: CANISTER QC BAT **Report Date:** 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/12/25 00:36
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2536357
Report Date: 07/18/25

Air Canister Certification Results

Lab ID: L2536357-10
Client ID: CAN 2408 SHELF 71
Sample Location:

Date Collected: 06/11/25 10:00
Date Received: 06/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2541773
Report Date: 07/18/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2541773-01A	Canister - 1L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2541773
Project Number:	Not Specified	**Report Date:**	07/18/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2541773
Project Number:	Not Specified	**Report Date:**	07/18/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2541773
Project Number:	Not Specified	**Report Date:**	07/18/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

Pace ANALYTICAL SERVICES

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/3/25

Pace® Job #: L2541773

Client Information

Client: Tetra Tech Inc,
Address: 980 Awald Road Suite 302
Annapolis MD 21403
Phone: (410) 350-6491
Fax:
Email: peter.rich@tetratech.com

☒ These samples have been previously analyzed by Pace

Project Information

Project Name: Former Lockheed Martin Site
Project Location: 525 French Rd. Utica
Project #:
Project Manager: Peter Rich - Tetra Tech / Kim Baines - HRP
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)
kim.baines@hrpassociates.com

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15			Sample Comments (i.e. PID)
41773-01	SP-303 Effluent	7/2/25	1500	1500	-28.82	-6.01	SV	LW	1	1507	GRB 0159	X							grab sample

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Sean Whalen	7/2/25 1925	PACE	7/2 2200
PACE	7/3 245		7/3/25 0500
	7/3/25 0707		7/3/25 0707

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Sample Delivery Group Summary

Pace Job Number : L2541773
Received : 03-JUL-2025
Reviewer : Christopher J Anderson

Account Name : HRP Associates, Inc.
Project Number :
Project Name : FORMER LOCKHEED MARTIN SITE

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2564502
Client:	HRP Associates, Inc. 1 Fairchild Square Suite 110 Clifton Park, NY 12065
ATTN:	Kim Baines
Phone:	(518) 877-7101
Project Name:	FORMER LOCKHEED MARTIN SITE
Project Number:	Not Specified
Report Date:	10/17/25

Certifications & Approvals: NH ELAP (2249).

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2564502-01	SP-303 EFFLUENT	SOIL_VAPOR	525 FRENCH ROAD, UTICA, NY	10/06/25 10:52	10/09/25

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2564502
Project Number:	Not Specified	**Report Date:**	10/17/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2564502
Project Number:	Not Specified	**Report Date:**	10/17/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 2, 2025. The canister certification data is provided as an addendum.

L2564502-01D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 10/17/25

AIR

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

SAMPLE RESULTS

Lab ID: L2564502-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 10/06/25 10:52
Date Received: 10/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/16/25 17:05
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	1.05	0.484	--	5.19	2.39	--		2.418
Chloromethane	ND	0.484	--	ND	0.999	--		2.418
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.484	--	ND	3.38	--		2.418
Vinyl chloride	ND	0.484	--	ND	1.24	--		2.418
1,3-Butadiene	ND	0.484	--	ND	1.07	--		2.418
Bromomethane	ND	0.484	--	ND	1.88	--		2.418
Chloroethane	ND	0.484	--	ND	1.28	--		2.418
Ethyl Alcohol	ND	12.1	--	ND	22.8	--		2.418
Vinyl bromide	ND	0.484	--	ND	2.12	--		2.418
Acetone	15.2	2.42	--	36.1	5.75	--		2.418
Trichlorofluoromethane	ND	0.484	--	ND	2.72	--		2.418
iso-Propyl Alcohol	98.4	2.42	--	242	5.95	--		2.418
1,1-Dichloroethene	ND	0.484	--	ND	1.92	--		2.418
tert-Butyl Alcohol	ND	1.21	--	ND	3.67	--		2.418
Methylene chloride	15.9	1.21	--	55.2	4.20	--		2.418
3-Chloropropene	ND	0.484	--	ND	1.51	--		2.418
Carbon disulfide	ND	0.484	--	ND	1.51	--		2.418
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.484	--	ND	3.71	--		2.418
trans-1,2-Dichloroethene	ND	0.484	--	ND	1.92	--		2.418
1,1-Dichloroethane	ND	0.484	--	ND	1.96	--		2.418
Methyl tert butyl ether	ND	0.484	--	ND	1.74	--		2.418
2-Butanone	ND	1.21	--	ND	3.57	--		2.418
cis-1,2-Dichloroethene	ND	0.484	--	ND	1.92	--		2.418

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

SAMPLE RESULTS

Lab ID: L2564502-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 10/06/25 10:52
Date Received: 10/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	1.27	1.21	--	4.58	4.36	--		2.418
Chloroform	1.61	0.484	--	7.86	2.36	--		2.418
Tetrahydrofuran	ND	1.21	--	ND	3.57	--		2.418
1,2-Dichloroethane	ND	0.484	--	ND	1.96	--		2.418
n-Hexane	1.19	0.484	--	4.19	1.71	--		2.418
1,1,1-Trichloroethane	ND	0.484	--	ND	2.64	--		2.418
Benzene	ND	0.484	--	ND	1.55	--		2.418
Carbon tetrachloride	ND	0.484	--	ND	3.04	--		2.418
Cyclohexane	3.49	0.484	--	12.0	1.67	--		2.418
1,2-Dichloropropane	ND	0.484	--	ND	2.24	--		2.418
Xylene (Total)	ND	0.484	--	ND	2.10	--		2.418
Bromodichloromethane	ND	0.484	--	ND	3.24	--		2.418
1,4-Dioxane	ND	0.484	--	ND	1.74	--		2.418
Trichloroethene	1.48	0.484	--	7.95	2.60	--		2.418
2,2,4-Trimethylpentane	ND	0.484	--	ND	2.26	--		2.418
Heptane	0.764	0.484	--	3.13	1.98	--		2.418
cis-1,3-Dichloropropene	ND	0.484	--	ND	2.20	--		2.418
4-Methyl-2-pentanone	ND	1.21	--	ND	4.96	--		2.418
trans-1,3-Dichloropropene	ND	0.484	--	ND	2.20	--		2.418
1,1,2-Trichloroethane	ND	0.484	--	ND	2.64	--		2.418
Toluene	0.484	0.484	--	1.82	1.82	--		2.418
1,2-Dichloroethene (total)	ND	0.484	--	ND	1.92	--		2.418
2-Hexanone	ND	0.484	--	ND	1.98	--		2.418
Dibromochloromethane	ND	0.484	--	ND	4.12	--		2.418
1,3-Dichloropropene, Total	ND	0.484	--	ND	2.20	--		2.418
1,2-Dibromoethane	ND	0.484	--	ND	3.72	--		2.418

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

SAMPLE RESULTS

Lab ID: L2564502-01 D
Client ID: SP-303 EFFLUENT
Sample Location: 525 FRENCH ROAD, UTICA, NY

Date Collected: 10/06/25 10:52
Date Received: 10/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tetrachloroethene	9.10	0.484	--	61.7	3.28	--		2.418
Chlorobenzene	ND	0.484	--	ND	2.23	--		2.418
Ethylbenzene	ND	0.484	--	ND	2.10	--		2.418
p/m-Xylene	ND	0.967	--	ND	4.20	--		2.418
Bromoform	ND	0.484	--	ND	5.00	--		2.418
Styrene	ND	0.484	--	ND	2.06	--		2.418
1,1,2,2-Tetrachloroethane	ND	0.484	--	ND	3.32	--		2.418
o-Xylene	ND	0.484	--	ND	2.10	--		2.418
4-Ethyltoluene	ND	0.484	--	ND	2.38	--		2.418
1,3,5-Trimethylbenzene	ND	0.484	--	ND	2.38	--		2.418
1,2,4-Trimethylbenzene	ND	0.484	--	ND	2.38	--		2.418
Benzyl chloride	ND	0.484	--	ND	2.51	--		2.418
1,3-Dichlorobenzene	ND	0.484	--	ND	2.91	--		2.418
1,4-Dichlorobenzene	ND	0.484	--	ND	2.91	--		2.418
1,2-Dichlorobenzene	ND	0.484	--	ND	2.91	--		2.418
1,2,4-Trichlorobenzene	ND	0.484	--	ND	3.59	--		2.418
Naphthalene	ND	0.459	--	ND	2.41	--		2.418
Hexachlorobutadiene	ND	0.484	--	ND	5.16	--		2.418

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/16/25 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2128852-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/16/25 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2128852-4								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/16/25 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2128852-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/16/25 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2128852-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified
Lab Number: L2564502
Report Date: 10/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/16/25 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01 Batch: WG2128852-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
Chlorodifluoromethane	126		-		70-130	-		
Propylene	101		-		70-130	-		
Propane	100		-		70-130	-		
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	105		-		70-130	-		
Methanol	86		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	104		-		70-130	-		
Butane	93		-		70-130	-		
Bromomethane	103		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethyl Alcohol	86		-		40-160	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	98		-		70-130	-		
Acrolein	83		-		60-113	-		
Acetone	95		-		40-160	-		
Acetonitrile	86		-		70-130	-		
Trichlorofluoromethane	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
iso-Propyl Alcohol	89		-		40-160	-		
Acrylonitrile	85		-		70-130	-		
Pentane	94		-		70-130	-		
Ethyl ether	89		-		70-130	-		
1,1-Dichloroethene	102		-		70-130	-		
tert-Butyl Alcohol	82		-		70-130	-		
Methylene chloride	104		-		70-130	-		
3-Chloropropene	100		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	99		-		70-130	-		
Methyl tert butyl ether	101		-		70-130	-		
Vinyl acetate	**63**	Q	-		70-130	-		
2-Butanone	112		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
Ethyl Acetate	91		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	115		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
2,2-Dichloropropane	94		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	113		-		70-130	-		
Isopropyl Ether	103		-		70-130	-		
Ethyl-Tert-Butyl-Ether	105		-		70-130	-		
1,2-Dichloroethene (total)	103		-			-		
1,2-Dichloroethene (total)	103		-			-		
1,1,1-Trichloroethane	96		-		70-130	-		
1,1-Dichloropropene	109		-		70-130	-		
Benzene	110		-		70-130	-		
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	116		-		70-130	-		
Tertiary-Amyl Methyl Ether	105		-		70-130	-		
Dibromomethane	100		-		70-130	-		
1,2-Dichloropropane	108		-		70-130	-		
Bromodichloromethane	113		-		70-130	-		
1,4-Dioxane	108		-		70-130	-		
Trichloroethene	105		-		70-130	-		
2,2,4-Trimethylpentane	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
Methyl Methacrylate	106		-		40-160	-		
Heptane	121		-		70-130	-		
cis-1,3-Dichloropropene	121		-		70-130	-		
4-Methyl-2-pentanone	118		-		70-130	-		
trans-1,3-Dichloropropene	129		-		70-130	-		
1,1,2-Trichloroethane	108		-		70-130	-		
Toluene	107		-		70-130	-		
1,3-Dichloropropane	96		-		70-130	-		
2-Hexanone	110		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	107		-		70-130	-		
Butyl Acetate	101		-		70-130	-		
Octane	102		-		70-130	-		
Tetrachloroethene	97		-		70-130	-		
1,1,1,2-Tetrachloroethane	92		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	104		-		70-130	-		
o-Xylene	107		-		70-130	-		
1,2,3-Trichloropropane	98		-		70-130	-		
Nonane (C9)	107		-		70-130	-		
Isopropylbenzene	103		-		70-130	-		
Bromobenzene	106		-		70-130	-		
o-Chlorotoluene	97		-		70-130	-		
n-Propylbenzene	93		-		70-130	-		
p-Chlorotoluene	89		-		70-130	-		
4-Ethyltoluene	110		-		70-130	-		
1,3,5-Trimethylbenzene	112		-		70-130	-		
tert-Butylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Decane (C10)	100		-		70-130	-		
Benzyl chloride	81		-		70-130	-		
1,3-Dichlorobenzene	99		-		70-130	-		
1,4-Dichlorobenzene	99		-		70-130	-		
sec-Butylbenzene	100		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01		Batch: WG2128852-3					
p-Isopropyltoluene	101		-		70-130	-		
1,2-Dichlorobenzene	97		-		70-130	-		
n-Butylbenzene	103		-		70-130	-		
1,2-Dibromo-3-chloropropane	90		-		70-130	-		
Undecane	106		-		70-130	-		
Dodecane (C12)	120		-		70-130	-		
1,2,4-Trichlorobenzene	96		-		70-130	-		
Naphthalene	105		-		70-130	-		
1,2,3-Trichlorobenzene	95		-		70-130	-		
Hexachlorobutadiene	82		-		70-130	-		

Project Name: FORMER LOCKHEED MARTIN SITE

Project Number:

Lab Number: L2564502

Report Date: 10/17/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2564502-01	SP-303 EFFLUENT	3544	1.0L Can	10/02/25	537006	L2560086-02	Pass	-29.6	-4.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/24/25 17:18
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	81		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/24/25 17:18
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2560086
Report Date: 10/17/25

Air Canister Certification Results

Lab ID: L2560086-02
Client ID: CAN 698 SHELF 8
Sample Location:

Date Collected: 09/23/25 15:00
Date Received: 09/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	82		60-140

Project Name: FORMER LOCKHEED MARTIN SITE
Project Number: Not Specified

Lab Number: L2564502
Report Date: 10/17/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2564502-01A	Canister - 1L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2564502
Project Number:	Not Specified	**Report Date:**	10/17/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2564502
Project Number:	Not Specified	**Report Date:**	10/17/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	FORMER LOCKHEED MARTIN SITE	**Lab Number:**	L2564502
Project Number:	Not Specified	**Report Date:**	10/17/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FORMER LOCKHEED MARTIN SITE **Lab Number:** L2564502

Project Number: Not Specified **Report Date:** 10/17/25

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

PAGE_____ OF _____

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/10/25

Pace® Job #: L2564502

Client Information

Client: Tetra Tech Inc
Address: 980 Awald Road Suite 302
Annapolis MD 21403
Phone: (410)-350-6491
Fax:
Email: peter.rich@tetratech.com

☒ These samples have been previously analyzed by Pace

Project Information

Project Name: Former Lockheed Martin Site
Project Location: 525 French Rd. Utica
Project #:
Project Manager: Peter Rich - Tetra Tech
Kim Baines - HRP
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)
kim.baines@hrpassociates.com

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
64502-01	SP-303 Effluent	10/6/25	1052		-29.33	-3.99	SV	LW	1	3544	GRB 0254	X					grab sample

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Tim Whalen	10/9/25 1615	Pace	10/9 16:15
	10/9 16:18		10/9 2200
Alberto Liz	10/10 240	Alberto Liz	10-10-25 0430
Alberto Liz	10-10-25 0530		10/10/25 0530

Sample Delivery Group Summary

Pace Job Number : L2564502
Account Name : HRP Associates, Inc.
Project Number :
Project Name : FORMER LOCKHEED MARTIN SITE

Received : 09-OCT-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**